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1.3 python 2.7.5-89.el7

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
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2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
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1.4 asm 5.0.4

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/package.html

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jar/org/objectweb/asm/tree/analysis/package.html

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- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXAdapter.java
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/Processor.java
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/ASMContentHandler.java
- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/xml/SAXCodeAdapter.java

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


```
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/
```

Found in path(s):

```
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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```

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```

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*/

/**

- * Creates a new { @link GeneratorAdapter}. *<i>*Subclasses must not use this constructor*</i>*. Instead, they must use the
- * { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
- * version.
- *
 * @param mv
 * the method visitor to which this adapter delegates calls.
- * @param access
 * the method's access flags (see { @link Opcodes}).
- * @param name
 * the method's name.
- * @param desc
 * the method's descriptor (see { @link Type Type}).
- * @throws IllegalStateException
 * If a subclass calls this constructor.

*/

Found in path(s):

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/GeneratorAdapter.java

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/**
 * Constructs a new {@link Textifier}. Subclasses must not use this
 * constructor. Instead, they must use the {@link #Textifier(int)}
 * version.
 *
 * @throws IllegalStateException
 *         If a subclass calls this constructor.
 */

```

Found in path(s):

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

```

Found in path(s):

```

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/ClassNode.java

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```

```
*/
```

```
/**
```

```
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
```

```
 *
```

```
 * @param typeRef
```

```
 *     a reference to the annotated type. See {@link TypeReference}.
```

```
 * @param typePath
```

```
 *     the path to the annotated type argument, wildcard bound, array
```

```
 *     element type, or static inner type within 'typeRef'. May be
```

```
 *     <tt>null</tt> if the annotation targets 'typeRef' as a whole.
```

```
 * @param start
```

```
 *     the first instructions corresponding to the continuous ranges
```

```
 *     that make the scope of this local variable (inclusive).
```

```
 * @param end
```

```
 *     the last instructions corresponding to the continuous ranges
```

```
 *     that make the scope of this local variable (exclusive). This
```

```
 *     array must have the same size as the 'start' array.
```

```
 * @param index
```

```
 *     the local variable's index in each range. This array must have
```

```
 *     the same size as the 'start' array.
```

```
 * @param desc
```

```
 *     the class descriptor of the annotation class.
```

```
*/
```

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```
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
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 jar/org/objectweb/asm/AnnotationWriter.java
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 jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
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 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/optimizer/Shrinker.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/commons/Method.java
 * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
 jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
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 jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MethodInsnNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodVisitor.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceFieldVisitor.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/SourceValue.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/AdviceAdapter.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Remapper.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicValue.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldWriter.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ByteVector.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/AbstractInsnNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Interpreter.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/JumpInsnNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/TableSwitchGenerator.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/FieldInsnNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LabelNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckSignatureAdapter.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/InstructionAdapter.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/IntInsnNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingClassAdapter.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassReader.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/VarInsnNode.java

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/Constant.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-

jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-

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jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/signature/SignatureVisitor.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Textifiable.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/ASMifiable.java
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*/

/**

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

* constructor*.* Instead, they must use the

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

* version.

*

* @param owner

* the owner's class name.

* @param access

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

* @param name

* the method's name.

* @param desc

* the method's descriptor (see { @link Type Type}).

* @param mv

* the method visitor to which this adapter delegates calls. May

* be `null`.

```
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/
```

Found in path(s):

```
*/opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-frames.properties

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-resize.properties

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-signatures.properties

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink.properties

* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/optimizer/shrink-writer.properties

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- * /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/TypeReference.java

1.5 joni 2.1.29

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- * /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/constants/internal/StackType.java
- * /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/ast/CallNode.java
- * /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/OptMapInfo.java
- * /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/StackMachine.java
- * /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/ast/AnyCharNode.java
- * /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/BitSet.java
- * /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/exception/ValueException.java
- * /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/ScanEnvironment.java
- * /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/Search.java
- * /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-

jar/org/joni/ast/CClassNode.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/Compiler.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/ast/AnchorNode.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/exception/SyntaxException.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/Config.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/constants/internal/OPSize.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/ast/StateNode.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/NodeOptInfo.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/constants/internal/NodeStatus.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/OptExactInfo.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/OptAnchorInfo.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/ByteCodePrinter.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/constants/internal/StackPopLevel.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/CaptureTreeNode.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/WarnCallback.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/constants/SyntaxProperties.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/Region.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/ast/QuantifierNode.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/ast/StringNode.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/ast/Node.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/MinMaxLen.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/OptEnvironment.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/constants/internal/EncloseType.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/constants/internal/StringType.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/ArrayCompiler.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/constants/internal/OPCode.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/BitStatus.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/Parser.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/Lexer.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/Matcher.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-

jar/org/joni/ByteCodeMachine.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-
jar/org/joni/ApplyCaseFoldArg.java
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jar/org/joni/constants/internal/AnchorType.java
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* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/StackEntry.java
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jar/org/joni/exception/InternalException.java
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jar/org/joni/constants/internal/Traverse.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-
jar/org/joni/MatcherFactory.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/Option.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-
jar/org/joni/constants/internal/Arguments.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-
jar/org/joni/constants/MetaChar.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-
jar/org/joni/ast/BackRefNode.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-
jar/org/joni/constants/internal/TargetInfo.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-
jar/org/joni/CodeRangeBuffer.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/Syntax.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-
jar/org/joni/UnsetAddrList.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/ast/ListNode.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-jar/org/joni/Analyser.java
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jar/org/joni/constants/internal/NodeType.java
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* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-
jar/org/joni/ast/CTypeNode.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-
jar/org/joni/exception/ErrorMessage.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-
jar/org/joni/ScannerSupport.java
* /opt/ws_local/PERMITS_SQL/1009226688_1591372455.14/0/joni-2-1-29-sources-
jar/org/joni/NativeMachine.java

1.6 file 5.11-37.e17

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1.7 blackfriday 2.1.0

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1.8 unboundid-ldap-sdk 4.0.8

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1.9 binutils 2.23.52

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```
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```

<signature of Ty Coon>, 1 April 1989

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Version 3, 29 June 2007

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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.

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.)

- 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.

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

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Version 2.1, February 1999

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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- 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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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.

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.

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

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+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon

University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.10 six 1.7.3

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The primary author and maintainer of six is Benjamin Peterson. He would like to acknowledge the following people who submitted bug reports, pull requests, and otherwise worked to improve six:

Marc Abramowitz
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1.11 jre 17.0.1

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xwd v1.0.7

xwd utility

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*  
*/
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include/GL/gl.h :

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1.14 mdadm 4.1-6.el7

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1.16 insomniacslk-dhcp 0.0.0- 20210120172423-cc9239ac6294

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- * Andrea Barberio (main author)
- * Pablo Mazzini (tons of fixes and new options)
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1.19 xerces-j 2.7.1

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1.21 commons-codec 1.11

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1.22 systemd 219-78.el7

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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.)

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.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) 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

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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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```

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Ty Coon, President of Vice

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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.

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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.

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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.

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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.

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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.

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

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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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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.

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analysis/common/src/java/org/apache/lucene/analysis/fin/FinnishLightStemmer.java
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1.28 go-md2man 2.0.0-20190314233015-f79a8a8ca69d

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1.29 zlib 1.2.8

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version 1.2.11, January 15th, 2017
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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
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1.32 apache-log4j 2.17.1

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```
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2EmptyDataFrameConnectionDecoder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2ControlFrameLimitEncoder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2EmptyDataFrameListener.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
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* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2Settings.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2HeadersDecoder.java
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* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/DefaultHttp2HeadersDecoder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2Stream.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/DefaultHttp2FrameWriter.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2HeadersEncoder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2ServerUpgradeCodec.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2Exception.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2ConnectionAdapter.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2LifecycleManager.java
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* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2Error.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2ConnectionHandler.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/DefaultHttp2Headers.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/DefaultHttp2FrameReader.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/InboundHttp2ToHttpAdapter.java
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* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2FrameTypes.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-

jar/io/netty/handler/codec/http2/Http2FrameAdapter.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2CodecUtil.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2FrameReader.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandler.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/DefaultHttp2RemoteFlowController.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2ConnectionEncoder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/DefaultHttp2LocalFlowController.java
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jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionDecoder.java
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jar/io/netty/handler/codec/http2/Http2Connection.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/DefaultHttp2Connection.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2FlowController.java
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jar/io/netty/handler/codec/http2/package-info.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/DelegatingDecompressorFrameListener.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2NoMoreStreamIdsException.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2Flags.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2FrameSizePolicy.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2RemoteFlowController.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
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jar/io/netty/handler/codec/http2/Http2Headers.java
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jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionEncoder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/CompressorHttp2ConnectionEncoder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2ClientUpgradeCodec.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2FrameWriter.java
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jar/io/netty/handler/codec/http2/Http2ConnectionDecoder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-

jar/io/netty/handler/codec/http2/DefaultHttp2HeadersEncoder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/EmptyHttp2Headers.java
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* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/WeightedFairQueueByteDistributor.java  
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* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/DecoratingHttp2ConnectionEncoder.java  
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/AbstractInboundHttp2ToHttpAdapterBuilder.java  
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/DecoratingHttp2FrameWriter.java  
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2PromisedRequestVerifier.java  
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* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2FrameStreamEvent.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2FrameCodecBuilder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/DefaultHttp2UnknownFrame.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/CleartextHttp2ServerUpgradeHandler.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2MultiplexCodecBuilder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2StreamChannelBootstrap.java
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// <https://tools.ietf.org/html/rfc7540#section-8.1.2.2> makes a special exception for TE

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- * /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/HpackDecoder.java
- * /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/HpackHuffmanEncoder.java
- * /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/HpackUtil.java

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- * /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/DefaultHttp2PriorityFrame.java

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* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/DefaultHttp2GoAwayFrame.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
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* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
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```

jar/io/netty/handler/codec/http2/DefaultHttp2ResetFrame.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/ReadOnlyHttp2Headers.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2StreamFrame.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/DefaultHttp2HeadersFrame.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2MultiplexCodec.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/DefaultHttp2SettingsFrame.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2SettingsFrame.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/InboundHttpToHttp2Adapter.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2StreamFrameToHttpObjectCodec.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2FrameStream.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/DefaultHttp2PingFrame.java
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* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/AbstractHttp2ConnectionHandlerBuilder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2ConnectionHandlerBuilder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/HttpToHttp2ConnectionHandlerBuilder.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/CharSequenceMap.java

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jar/io/netty/handler/codec/http2/MaxCapacityQueue.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/DefaultHttp2SettingsAckFrame.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2SettingsAckFrame.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/AbstractHttp2StreamChannel.java
* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-
jar/io/netty/handler/codec/http2/Http2MultiplexHandler.java
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* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2SecurityUtil.java

* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2FrameLogger.java

* /opt/cola/permits/1337082976_1654119330.8595526/0/netty-codec-http2-4-1-66-final-sources-1-jar/io/netty/handler/codec/http2/Http2InboundFrameLogger.java

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1.34 dosfs-tools 3.0.20 10.e17

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1.35 urfave-cli 1.22.1

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1.36 vpnkit 0.5.0

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goproperties - properties file decoder for Go

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package spec

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//

// For more information: <http://goo.gl/8us55a#licenseObject>

type License struct {

 Name string `json:"name,omitempty"`

 URL string `json:"url,omitempty"`

}

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1.37 hppc 0.8.1

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1.42 mixlib-authentication 1.4.1

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1.43 jasper 1.900.1 33.el7

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1.44 libxi 1.7.9-1.el7

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1.45 httpcore-nio 4.4.12

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1.46 go-capability 0.0.0-20180916011248-d98352740cb2

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src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftandom/ftandom.c
#
# EOF
```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.48 snappy 1.0.4

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1.49 icu 57

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```
## -*-makefile-*-
```

```
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
```

```
## Copyright (c) 1999-2009, International Business Machines Corporation and
```

```
## others. All Rights Reserved.
```

```

## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.${STATIC_O}: $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O}: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp

```

```

@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g'" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

## End FreeBSD-specific setup

```

1.50 netlink 1.1.0

1.50.1 Available under license :

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*

* An almost complete rewrite of MySpell for use by

* the Mozilla project has been developed by David Einstein

* (Deinst@world.std.com). David and I are now

* working on parallel development tracks to help

* our respective projects (Mozilla and OpenOffice.org
* and we will maintain full affix file and dictionary
* file compatibility and work on merging our versions
* of MySpell back into a single tree. David has been
* a significant help in improving MySpell.
*
* Special thanks also go to La'szlo' Ne'meth
* <nemethl@gyorsposta.hu> who is the author of the
* Hungarian dictionary and who developed and contributed
* the code to support compound words in MySpell
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*
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*

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*

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1.54 mnuralp-fileutils 0.0.0-20200520151820-abd8a0e76976

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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From dso/aix/dso.c:

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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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From strings/apr_snprintf.c:

```
*  
* cvt - IEEE floating point formatting routines.  
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*
```

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1.57 libsemanage 2.5 14.el7

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1.58 pciutils 3.5.1-3.el7

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1.59 antlr-runtime 4.5.3

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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/misc/Predicate.java

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*/opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
jar/org/antlr/v4/runtime/atn/SimulatorState.java
*/opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
jar/org/antlr/v4/runtime/dfa/AbstractEdgeMap.java
*/opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
jar/org/antlr/v4/runtime/dfa/SingletonEdgeMap.java
*/opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
jar/org/antlr/v4/runtime/dfa/SparseEdgeMap.java
*/opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
jar/org/antlr/v4/runtime/dfa/ArrayEdgeMap.java
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 jar/org/antlr/v4/runtime/dfa/AcceptStateInfo.java
 * /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
 jar/org/antlr/v4/runtime/atn/ErrorInfo.java
 * /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
 jar/org/antlr/v4/runtime/atn/DecisionEventInfo.java
 * /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
 jar/org/antlr/v4/runtime/VocabularyImpl.java
 * /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
 jar/org/antlr/v4/runtime/atn/ContextSensitivityInfo.java
 * /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
 jar/org/antlr/v4/runtime/atn/DecisionInfo.java
 * /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
 jar/org/antlr/v4/runtime/atn/PredicateEvalInfo.java
 * /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
 jar/org/antlr/v4/runtime/atn/LookaheadEventInfo.java
 * /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
 jar/org/antlr/v4/runtime/atn/ConflictInfo.java
 * /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
 jar/org/antlr/v4/runtime/atn/ParseInfo.java
 * /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
 jar/org/antlr/v4/runtime/atn/AmbiguityInfo.java

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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-  
jar/org/antlr/v4/runtime/Vocabulary.java
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jar/org/antlr/v4/runtime/TokenFactory.java
```

```
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-  
jar/org/antlr/v4/runtime/misc/TestRig.java
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-  
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jar/org/antlr/v4/runtime/tree/ParseTree.java
```

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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/tree/ParseTreeProperty.java
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/misc/LogManager.java
* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/RangeTransition.java
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/ArrayPredictionContext.java
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/atn/PredicateTransition.java
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/misc/Array2DHashSet.java
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/Token.java
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
jar/org/antlr/v4/runtime/atn/SetTransition.java

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jar/org/antlr/v4/runtime/atn/LexerCustomAction.java

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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreePatternMatcher.java

* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/tree/pattern/TextChunk.java

* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/InterpreterRuleContext.java

* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/tree/pattern/TokenTagToken.java

* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/tree/pattern/Chunk.java

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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreeMatch.java

* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/tree/pattern/RuleTagToken.java

* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/ParserInterpreter.java

* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/tree/pattern/ParseTreePattern.java

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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/misc/Tuple3.java

* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/misc/Tuple2.java

* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/misc/Tuple.java

1.60 glib 2.56.1-7.el7

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1.66 openjdk-jre 1.8.0.191.b12-1.e17_6

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```
## Little Color Management System (LCMS) v2.9
```

```
### LCMS License
```

```
<pre>
```

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## c-libutl 20160225
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```
</pre>
## xwd v1.0.7

### xwd utility
<pre>
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## Dynalink v.5
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1.68 xz 5.2.5

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1.69 Icms 2.6 3.e17

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1.70 libcgrou 0.41 21.el7

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Re-implemented and improved read-write locks;
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enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once
similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.

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Changes to make C version usable with C++ applications;
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POSIX versioning conditionals;
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reimplemented pthread_once with the same form
as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
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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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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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- 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.
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- 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:

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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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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.

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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:

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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.)

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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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.

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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.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) 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.

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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.

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:

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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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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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- 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.
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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 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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(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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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.

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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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- 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.

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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.

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

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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.

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:

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GNU Glib v2.66.7

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...

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rt/modules/javafx.media/src/main/native/gstreamer/3rd_party/glib/

...

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...

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Version 2.1, February 1999

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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.

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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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- 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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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.

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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.

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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

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Mesa 3-D Graphics Library v21.0.3

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Ext headers GL/glxt.h Khronos
GL/glxt.h Khronos
GL/wglxt.h Khronos
KHR/khrplatform.h Khronos

include/GL/gl.h :

Mesa 3-D graphics library

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include/GL/glxt.h
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GStreamer v1.18.4

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rt/modules/javafx.media/src/main/native/gstreamer/gstreamer-lite/
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* /opt/ws_local/PERMITS_SQL/1078377000_1597297561.19/0/jackson-mapper-asl-1-9-2-sources-1-jar/org/codehaus/jackson/map/MappingJsonFactory.java

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1.76 libunistring 0.9.10

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```
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```

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```

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* /opt/cola/permits/1158346490_1619742988.49/0/json-pure-1-8-3-gem/data-tar-gz/java/src/json/ext/Generator.java

* /opt/cola/permits/1158346490_1619742988.49/0/json-pure-1-8-3-gem/data-tar-gz/java/src/json/ext/RuntimeInfo.java

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2015-09-11 (1.8.4)

* There were still some mentions of dual GPL licensing in the source, but JSON has just the Ruby license that itself includes an explicit dual-licensing clause that allows covered software to be distributed under the terms of the Simplified BSD License instead for all ruby versions $\geq 1.9.3$. This is however a GPL compatible license according to the Free Software Foundation. I changed these mentions to be consistent with the Ruby license setting in the gemspec files which were already correct now.

2015-06-01 (1.8.3)

* Fix potential memory leak, thx to nobu.

2015-01-08 (1.8.2)

- * Some performance improvements by Vipul A M <vipulnsward@gmail.com>.
- * Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of `JSON.dump_default_options`.
- * More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing `space_before` accessor in generator.
- * Performance on Jruby improved by Ben Browning <bbrownin@redhat.com>.
- * Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io> and SHIBATA Hiroshi <hsbt@ruby-lang.org>.

2013-05-13 (1.8.1)

- * Remove Rubinius exception since transcoding should be working now.

2013-05-13 (1.8.0)

- * Fix <https://github.com/flori/json/issues/162> reported by Marc-Andre Lafortune <github_rocks@marc-andre.ca>. Thanks!
- * Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with `-Wchar-subscripts` and better validate UTF-8 strings.
- * Applied patch by ginriki@github to remove unnecessary `if`.
- * Add load/dump interface to `JSON::GenericObject` to make `serialize :some_attribute, JSON::GenericObject` work in Rails active models for convenient `SomeModel#some_attribute.foo.bar` access to serialised JSON data.

2013-02-04 (1.7.7)

- * Security fix for JSON `create_additions` default value and `JSON::GenericObject`. It should not be possible to create additions unless explicitly requested by setting the `create_additions` argument to `true` or using the `JSON.load/dump` interface. If `JSON::GenericObject` is supposed to be automatically deserialised, this has to be explicitly enabled by setting

```
JSON::GenericObject.json_creatable = true
```

 as well.
- * Remove useless `assert` in `fbuffer` implementation.
- * Apply patch attached to <https://github.com/flori/json/issues#issue/155> provided by John Shahid <jvshahid@gmail.com>, Thx!
- * Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
- * Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

2012-11-29 (1.7.6)

- * Add `GeneratorState#merge` alias for JRuby, fix state accessor methods. Thx to jvshahid@github.
- * Increase hash likeness of state objects.

2012-08-17 (1.7.5)

- * Fix compilation of extension on older rubies.

2012-07-26 (1.7.4)

- * Fix compilation problem on AIX, see <https://github.com/flori/json/issues/142>

2012-05-12 (1.7.3)

- * Work around Rubinius encoding issues using `iconv` for conversion instead.

2012-05-11 (1.7.2)

- * Fix some encoding issues, that cause problems for the pure and the extension variant in jruby 1.9 mode.

2012-04-28 (1.7.1)

- * Some small fixes for building

2012-04-28 (1.7.0)

- * Add JSON::GenericObject for method access to objects transmitted via JSON.

2012-04-27 (1.6.7)

- * Fix possible crash when trying to parse nil value.

2012-02-11 (1.6.6)

- * Propagate src encoding to values made from it (fixes 1.9 mode converting everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo <tom.enebo@gmail.com>), should fix <https://github.com/flori/json/issues#issue/119>.
- * Fix <https://github.com/flori/json/issues#issue/124> Thx to Jason Hutchens.
- * Fix <https://github.com/flori/json/issues#issue/117>

2012-01-15 (1.6.5)

- * Vit Ondruch <v.ondruch@tiscali.cz> reported a bug that shows up when using optimisation under GCC 4.7. Thx to him, Bohuslav Kabrda <bkabrda@redhat.com> and Yui NARUSE <naruse@airemix.jp> for debugging and developing a patch fix.

2011-12-24 (1.6.4)

- * Patches that improve speed on JRuby contributed by Charles Oliver Nutter <headius@headius.com>.
- * Support object_class/array_class with duck typed hash/array.

2011-12-01 (1.6.3)

- * Let JSON.load("") return nil as well to make mysql text columns (default to "") work better for serialization.

2011-11-21 (1.6.2)

- * Add support for OpenStruct and BigDecimal.
- * Fix bug when parsing nil in quirks_mode.
- * Make JSON.dump and JSON.load methods better cooperate with Rails' serialize method. Just use: serialize :value, JSON
- * Fix bug with time serialization concerning nanoseconds. Thanks for the patch go to Josh Partlow (jpartlow@github).
- * Improve parsing speed for JSON numbers (integers and floats) in a similar way to what Evan Phoenix <evan@phx.io> suggested in: <https://github.com/flori/json/pull/103>

2011-09-18 (1.6.1)

- * Using -target 1.5 to force Java bits to compile with 1.5.

2011-09-12 (1.6.0)

- * Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
- * Split json/add/core into different files for classes to be serialised.

2011-08-31 (1.5.4)

- * Fix memory leak when used from multiple JRuby. (Patch by jfirebaugh@github).
- * Apply patch by Eric Wong <ncode@yhbt.net> that fixes garbage collection problem reported in <https://github.com/flori/json/issues/46>.
- * Add :quirks_mode option to parser and generator.
- * Add support for Rational and Complex number additions via json/add/complex and json/add/rational requires.

2011-06-20 (1.5.3)

- * Alias `State#configure` method as `State#merge` to increase duck type synonymy with `Hash`.
- * Add `as_json` methods in `json/add/core`, so rails can create its json objects the new way.

2011-05-11 (1.5.2)

- * Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
- * Add `gemspecs` for `json` and `json_pure`.
- * Fix bug in `jrubby` pretty printing.
- * Fix bug in `object_class` and `array_class` when inheriting from `Hash` or `Array`.

2011-01-24 (1.5.1)

- * Made `rake-compiler` build a fat binary gem. This should fix issue <https://github.com/flori/json/issues#issue/54>.

2011-01-22 (1.5.0)

- * Included Java source codes for the `Jruby` extension made by Daniel Luz <dev@mernen.com>.
- * Output full exception message of `deep_const_get` to aid debugging.
- * Fixed an issue with ruby 1.9 `Module#const_defined?` method, that was reported by Riley Goodside.

2010-08-09 (1.4.6)

- * Fixed oversight reported in <http://github.com/flori/json/issues/closed#issue/23>, always create a new object from the state prototype.
- * Made `pure` and `ext` api more similar again.

2010-08-07 (1.4.5)

- * Manage data structure nesting depth in state object during generation. This should reduce problems with `to_json` method definitions that only have one argument.
- * Some fixes in the state objects and additional tests.

2010-08-06 (1.4.4)

- * Fixes build problem for `rubinius` under OS X, <http://github.com/flori/json/issues/closed#issue/25>
- * Fixes crashes described in <http://github.com/flori/json/issues/closed#issue/21> and <http://github.com/flori/json/issues/closed#issue/23>

2010-05-05 (1.4.3)

- * Fixed some test assertions, from Ruby `r27587` and `r27590`, patch by nobu.
- * Fixed issue <http://github.com/flori/json/issues/#issue/20> reported by `electronicwhisper@github`. Thx!

2010-04-26 (1.4.2)

- * Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with Microsoft Visual C possible again.
- * Applied patch from `devrandom` <c1.github@niftybox.net> in order to allow building of `json_pure` if `extensiontask` is not present.
- * Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory leak, which is fixed in this release.
- * Applied `993f261ccb8f911d2ae57e9db48ec7acd0187283` patch from `josh@github`.

2010-04-25 (1.4.1)

- * Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by `T_FIXNUM` being different on 32bit/64bit architectures.

2010-04-23 (1.4.0)

- * Major speed improvements and building with simplified

- directory/file-structure.
- * Extension should at least be compatible with MRI, YARV and Rubinius.
- 2010-04-07 (1.2.4)
- * Trigger `const_missing` callback to make Rails' dynamic class loading work.
- 2010-03-11 (1.2.3)
- * Added a `State#[]` method which returns an attribute's value in order to increase duck type compatibility to Hash.
- 2010-02-27 (1.2.2)
- * Made some changes to make the building of the parser/generator compatible to Rubinius.
- 2009-11-25 (1.2.1)
- * Added `:symbolize_names` option to Parser, which returns symbols instead of strings in object names/keys.
- 2009-10-01 (1.2.0)
- * `fast_generate` now raises an exception for nan and infinite floats.
 - * On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE, and UTF-32LE JSON documents now. Under Ruby 1.9 the `M17n` conversion functions are used to convert from all supported encodings. ASCII-8BIT encoded strings are handled like all strings under Ruby 1.8 were.
 - * Better documentation
- 2009-08-23 (1.1.9)
- * Added forgotten main doc file `extra_rdoc_files`.
- 2009-08-23 (1.1.8)
- * Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure work in environments that don't provide `iconv`.
 - * Applied patch by okkez_ in order to fix Ruby Bug #1768:
<http://redmine.ruby-lang.org/issues/show/1768>.
 - * Finally got around to avoid the rather paranoid escaping of `?!/` characters in the generator's output. The parsers aren't affected by this change.
Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.
- 2009-06-29 (1.1.7)
- * Security Fix for `JSON::Pure::Parser`. A specially designed string could cause catastrophic backtracking in one of the parser's regular expressions in earlier 1.1.x versions. `JSON::Ext::Parser` isn't affected by this issue.
Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this problem.
 - * This release also uses a less strict ruby version requirement for the creation of the `mwin32` native gem.
- 2009-05-10 (1.1.6)
- * No changes. tested native linux gems in the last release and they don't play well with different ruby versions other than the one the gem was built with. This release is just to bump the version number in order to skip the native gem on rubyforge.
- 2009-05-10 (1.1.5)
- * Started to build gems with rake-compiler gem.
 - * Applied patch object/array class patch from Brian Candler <B.Candler@pobox.com> and fixes.
- 2009-04-01 (1.1.4)

- * Fixed a bug in the creation of serialized generic rails objects reported by Friedrich Graeter <graeter@hydrixos.org>.
- * Deleted tests/runner.rb, we're using testrb instead.
- * Editor supports Infinity in numbers now.
- * Made some changes in order to get the library to compile/run under Ruby 1.9.
- * Improved speed of the code path for the fast_generate method in the pure variant.

2008-07-10 (1.1.3)

- * Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime handling: If the nominator and denominator of the offset were divisible by each other Ruby's Rational#to_s returns them as an integer not a fraction with '/'. This caused a ZeroDivisionError during parsing.
- * Use Date#start and DateTime#start instead of sg method, while remaining backwards compatible.
- * Supports ragel >= 6.0 now.
- * Corrected some tests.
- * Some minor changes.

2007-11-27 (1.1.2)

- * Remember default dir (last used directory) in editor.
- * JSON::Editor.edit method added, the editor can now receive json texts from the clipboard via C-v.
- * Load json texts from an URL pasted via middle button press.
- * Added :create_additions option to Parser. This makes it possible to disable the creation of additions by force, in order to treat json texts as data while having additions loaded.
- * Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON object if the rails addition is enabled, which is wrong. It now outputs a JSON string "foo" instead, like suggested by Jacob Maine.
- * Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported by John Evans lgastako@gmail.com. He could produce a crash in the JSON generator by returning something other than a String instance from a to_json method. I now guard against this by doing a rather crude type check, which raises an exception instead of crashing.

2007-07-06 (1.1.1)

- * Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby 1.9. I applied them and adapted some of them a bit to run both on 1.8 and 1.9.
- * Introduced a JSON.parse! method without depth checking for people who like danger.
- * Made generate and pretty_generate methods configurable by an options hash.
- * Added :allow_nan option to parser and generator in order to handle NaN, Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi <andrea.censi@dis.uniroma1.it> for his hint about this.
- * Fixed some more tests for Ruby 1.9.
- * Implemented dump/load interface of Marshal as suggested in ruby-core:11405

by murphy <murphy@rubychan.de>.

- * Implemented the max_nesting feature for generate methods, too.
- * Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.

2007-05-21 (1.1.0)

- * Implemented max_nesting feature for parser to avoid stack overflows for data from untrusted sources. If you trust the source, you can disable it with the option max_nesting => false.
- * Piers Cawley <pdcauley@bofh.org.uk> reported a bug, that not every character can be escaped by ?\ as required by RFC4627. There's a contradiction between David Crockford's JSON checker test vectors (in tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because the JSON checker seems to be a bit older than the RFC.
- * Extended license to Ruby License, which includes the GPL.
- * Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

2007-05-09 (1.0.4)

- * Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile under Ruby 1.9. Thank you very much for mailing it to me!
- * Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading of the binary.

2007-03-24 (1.0.3)

- * Improved performance of pure variant a bit.
- * The ext variant of this release supports the mswin32 platform. Ugh!

2007-03-24 (1.0.2)

- * Ext Parser didn't parse 0e0 correctly into 0.0: Fixed!

2007-03-24 (1.0.1)

- * Forgot some object files in the build dir. I really like that - not!

2007-03-24 (1.0.0)

- * Added C implementations for the JSON generator and a ragel based JSON parser in C.
- * Much more tests, especially fixtures from json.org.
- * Further improved conformance to RFC4627.

2007-02-09 (0.4.3)

- * Conform more to RFC4627 for JSON: This means JSON strings now always must contain exactly one object "{ ... }" or array "[...]" in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby ([\t\r\n]), and there are differences in floats and integers (no octals or hexadecimals) as well.
- * Added aliases generate and pretty_generate of unparse and pretty_unparse.
- * Fixed a test case.
- * Catch an Iconv::InvalidEncoding exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!

2006-08-25 (0.4.2)

- * Fixed a bug in handling solidi (/characters), that was reported by Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

2006-02-06 (0.4.1)

* Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.

2005-09-23 (0.4.0)

* Initial Rubyforge Version

Found in path(s):

* /opt/cola/permits/1158346490_1619742988.49/0/json-pure-1-8-3-gem/data-tar-gz/CHANGES

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1.78 chef-config 12.14.89

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- 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.

^L

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.

^L

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.

^L

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.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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^L

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

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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!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from <http://sourceforge.net/projects/cracklib>

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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<http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>. You can also obtain it by writing to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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 under=

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

> > it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> 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...
>
> 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.

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 191Gxtpr020623
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-56FBFE6E9F@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

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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>=20

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> GPL-2 ... it was a modified artistic license ... i didnt notice the

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> unlike the old license, GPL-2 prevents people from using cracklib

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> 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.

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>> 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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> 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: (gmail 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 191Gxtpr020623
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-56FBFE6E9F@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

1.83 owasp-java-html-sanitizer 20211018.2

1.83.1 Available under license :

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

```
// All rights reserved.  
// Redistribution and use in source and binary forms, with or without  
// modification, are permitted provided that the following conditions  
// are met:  
// Redistributions of source code must retain the above copyright  
// notice, this list of conditions and the following disclaimer.  
// Redistributions in binary form must reproduce the above copyright  
// notice, this list of conditions and the following disclaimer in the  
// documentation and/or other materials provided with the distribution.  
// Neither the name of the OWASP nor the names of its contributors may  
// without specific prior written permission.
```

Found in path(s):

```
* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-  
jar/org/owasp/html/CssGrammar.java  
* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-  
jar/org/owasp/html/HtmlTextEscapingMode.java  
* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-  
jar/org/owasp/html/CssSchema.java  
* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-  
jar/org/owasp/html/ElementAndAttributePolicyBasedSanitizerPolicy.java  
* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-  
jar/org/owasp/html/Strings.java
```

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/HtmlToken.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/HtmlStreamEventReceiver.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/HtmlEntities.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/examples/UrlTextExample.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/TagBalancingHtmlStreamEventReceiver.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/HtmlSanitizer.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/HtmlChangeReporter.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/PolicyFactory.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/examples/EbayPolicyExample.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/StandardUrlAttributePolicy.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/Handler.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/Sanitizers.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/Trie.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/HtmlChangeListener.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/TCB.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/HtmlPolicyBuilder.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/HtmlLexer.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/ElementPolicy.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/JoinedAttributePolicy.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/examples/SlashdotPolicyExample.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/ElementAndAttributePolicies.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/StylingPolicy.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/TokenStream.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/package-info.java

* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/FilterUrlByProtocolAttributePolicy.java
* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/Encoding.java
* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/AllExamples.java
* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/SrcsetAttributePolicy.java
* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/AttributePolicy.java
* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/CssTokens.java
* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/HtmlTokenType.java
* /opt/cola/permits/1223933302_1635976579.42/0/owasp-java-html-sanitizer-20211018-2-sources-jar/org/owasp/html/HtmlStreamRenderer.java

1.84 libmnl 1.0.3 7.e17

1.84.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,

not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these 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 other code 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.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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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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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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.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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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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Ty Coon, President of Vice
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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.

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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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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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- 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.

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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.

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.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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1.91 xfsprogs 4.5.0-22.el7

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1.92 blackfriday 2.0.1

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1.93 opus 1.0.2 6.e17

1.94 jline-reader 3.14.1

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Found in path(s):

```
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-
jar/org/jline/reader/impl/DefaultParser.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Parser.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/ScriptEngine.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-
jar/org/jline/reader/impl/LineReaderImpl.java
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* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-
jar/org/jline/reader/impl/completer/EnumCompleter.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-
jar/org/jline/reader/impl/UndoTree.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-
jar/org/jline/reader/impl/ReaderUtils.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Reference.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-
jar/org/jline/reader/impl/DefaultExpander.java
```

* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Expander.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/impl/completer/package-info.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/package-info.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Widget.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/keymap/KeyMap.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Binding.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/UserInterruptException.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/EndOfFileException.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/impl/history/package-info.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/impl/completer/NullCompleter.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Macro.java
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* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/EOFError.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/SyntaxError.java
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* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Candidate.java

* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/LineReader.java

* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Highlighter.java

* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-

jar/org/jline/reader/impl/completer/ArgumentCompleter.java

* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-

jar/org/jline/reader/impl/completer/StringsCompleter.java

* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-

jar/org/jline/reader/ConfigurationPath.java

* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Editor.java

* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-

jar/org/jline/reader/impl/DefaultHighlighter.java

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* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/impl/SimpleMaskingCallback.java

* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Buffer.java

* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-

jar/org/jline/reader/impl/BufferImpl.java

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jar/org/jline/keymap/BindingReader.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-
jar/org/jline/reader/CompletingParsedLine.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-
jar/org/jline/reader/impl/completer/FileNameCompleter.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-
jar/org/jline/reader/LineReaderBuilder.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/History.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-
jar/org/jline/reader/impl/history/DefaultHistory.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-
jar/org/jline/reader/impl/KillRing.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Completer.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-
jar/org/jline/reader/MaskingCallback.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/ParsedLine.java
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1.95 ruby 2.3.1

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= Contributors to Ruby

The following list might be incomplete. Feel free to add your name if your patch was accepted into Ruby.

== A

Ayumu AIZAWA (ayumin)

* committer

AKIYOSHI, Masamichi (akiyoshi)

* committer

* He had maintained the VMS support on 2003-2004.

Muhammad Ali

* wrote rdoc for Fiber

Minero Aoki (amine)

* committer

* He is the maintainer of:

* fileutils

* net/http, net/https

* net/pop

* net/smtp

* racc

* ripper

* strscan

Wakou Aoyama (wakou)

* committer

* He was the maintainer of some standard libraries.

Koji Arai

* committer

arton

* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.

* Wrote patches for win32ole, gc.c, tmpdir.rb

Sergey Avseyev

* Added IO#pread and IO#pwrite.

== B

Daniel Berger

- * a patch for irb
- * documentation
- * He wrote forwardable.rb

David Black (dblack)

- * committer
- * He is the maintainer of scanf

Ken Bloom

- * a patch for REXML.

Oliver M. Bolzer

- * a patch for soap

Alexey Borzenkov

- * a patch for mkmf.rb

Evan Brodie

- * a patch for documentation of Float#round

Richard Brown

- * a patch for configure.in

Dirkjan Bussink

- * a patch for date.rb

Daniel Bovensiepen

- * documentation
- * a patch for irb

== C

Brian Candler

- * a patch for configure.in, net/telnet

keith cascio

- * a patch for optparse.rb

Frederick Cheung

- * a patch for test/ruby/test_symbol.rb

Christoph

- * patches for set.rb

Sean Chittenden

* patches for net/http, cgi

William D. Clinger

* ruby_strtod is based on his paper.

== D

Ryan Davis (ryan)

* committer

* He wrote and is the maintainer of miniunit

Guy Decoux (ts)

* committer

Zach Dennis

Martin Duerst (duerst)

* committer

* M17N

Paul Duncan

* patches for rdoc

Alexander Dymo

* a patch for lib/benchmark.rb

== E

Yusuke Endoh (mame)

* committer

* He wrote and is the maintainer of base64 library (1.9)

* did much upon YARV compiler.

erlercw

* wrote Integer::gcd2

== F

Frank S. Fejes

* a patch for net/pop

Fundakowski Feldman

* a patch for process.c

Mauricio Fernandez

* patches for parse.y

David Flanagan (davidflanagan)

* committer

* M17N

Takeyuki Fujioka (xibbar)

* committer

* He is the maintainer of cgi/*

FUKUMOTO, Atsushi

* a patch for tracer.rb

Shota Fukumori (sorah)

* committer

* #4415 parallel unit/test

Tadayoshi Funaba (tadf)

* committer

* He wrote and is the maintainer of

* date

* parsedate (1.8)

* He ported rational.rb and complex.rb, which 1.8 contains, into rational.c and complex.c of 1.9.

== G

David M. Gay

* ruby_strtod

Florian Gilcher

* documentation

GOTOU, Kentaro (gotoken)

* committer

* He wrote benchmark.rb

* He is the maintainer of:

* benchmark.rb

* open3

GOTOU, Yuuzou (gotoyuzo)

* committer

James Edward Gray II (jeg2)

* committer

* He wrote the faster implementation of CSV and is the maintainer of csv.

* Wrote documentation for rdoc

== H

Phil Hagelberg

* patch for ruby-mode.el's documentation.

Kirk Haines (wyhaines)

- * committer
- * the maintainer of ruby_1_8_6 branch

Shinichiro Hamaji

- * fixed memory leaks (marshal.c, string.c)

Shin-ichiro HARA

- * the developer and the sysop of ruby-{dev,list,core,talk} archive.
- * a patch for numeric.c

Chris Heath (traumdeutung)

- * a patch for proc.c

HIROKAWA Hisashi

- * fixed socket/socket.c

Daniel Hob

- * He wrote:
 - * SMTP-TLS support for net/smtp.
 - * POP3S support

Eric Hodel (drbrain)

- * committer
- * He is the maintainer of:
 - * rdoc
 - * ri
 - * rubygems

Erik Hollensbe

- * a patch for delegate.rb

Johan Holmberg

- * a patch for dir.c
- * documentation

Erik Huelsmann

Dae San Hwang

- * built a continuous integration environment on OpenSolaris.

== I

Nobuhiro IMAI

- * a patch for logger.rb

"incorporate"

* a patch for sprintf.c

Keiju Ishitsuka (keiju)

* committer

* He wrote and is the maintainer of:

* cmath.rb (1.9)

* complex.rb (1.8)

* e2mmap.rb

* forwardable.rb

* irb

* mathn

* matrix.rb

* mutex_m.rb

* rational.rb (1.8)

* sync.rb

* shell/*

* thwait.rb

* tracer.rb

== J

Curtis Jackson

* missing/dup2.c

Alan Johnson

* a patch for net/ftp

Lyle Johnson

* patches for nkf, bigdecimal, numeric.c

== K

Yoshihiro Kambayashi

* a patch for enc/trans/single_byte.trans.

* He wrote supports for some encodings.

Yutaka Kanemoto

* patches for common.mk, AIX AF_INET6 support

Motoyuki Kasahara

* He wrote getoptlong.rb

Masahiro Kawato

* a patch for shellwords.rb

Wataru Kimura

* a patch for configure.in

Michael Klishin

- * patch for make help.

Noritada Kobayashi

- * a patch for optparse.rb

Shigeo Kobayashi (shigek)

- * committer

- * He is the maintainer of bigdecimal

KONISHI, Hiromasa (H_Konishi)

- * committer

- * He had maintained the bcc32 support in 2004.

Kornelius "murphy" Kalnbach

- * documentation

K.Kosako (kosako)

- * committer

- * He wrote Oniguruma.

Takehiro Kubo

- * patches for dl 64bit support.

== L

Marc-Andre Lafortune (marcandre)

- * committer

- * patches for hash.c, array.c, thread.c, enumc, string.c, range.c and rdoc documentation.

Hongli Lai

- * improved pstore.rb

- * patch for tool/file2lastrev.rb.

raspberry lemon

- * a patch for webrick/httpproxy.rb.

Christian Loew

- * a patch for fileutils.rb

== M

Shugo Maeda (shugo)

- * committer

- * A system administrator of ruby-lang.org servers.

- * He wrote and is the maintainer of:

- * monitor.rb

- * net/ftp

* net/imap

Stephan Maka (mathew)

* documentation

Yukihiro Matsumoto (matz)

* Matz -- the founder, language designer of Ruby.

* committer

* Ruby itself, most of Ruby.

* He is the maintainer of:

* singleton

* timeout

* gdbm

* sdbm

Konrad Meyer

* documentation

Mib Software

* missing/vsnprintf.c

Todd C. Miller

* missing/strlcat.c

* missing/strncpy.c

MIYASAKA, Masaru

* a patch for cgi.rb

Stefan Monnier

* regex.c was fixed with based on his Emacs21 patch.

Marcel Moolenaar

* patches for eval.c and gc.c.

moonwolf

* a patch for REXML, xmlrpc

Hiroshi Moriyama

* a patch for yaml.

Kyosuke Morohashi

* a patch for gem_prelude.rb

Kenta Murata

* patches for json, bignum.c

Akinori MURASHI (knu)

* committer

- * He wrote and is the maintainer of:
 - * abbrev.rb
 - * generator (1.8)
 - * enumerator (1.8)
 - * set
 - * ipaddr.rb
 - * digest/*
 - * syslog
- * He is the branch maintainer of ruby_1_8, the release manager of 1.8 series.

== N

Hidetoshi NAGAI (nagai)

- * committer
- * He is the maintainer of tk/*

Nobuyoshi Nakada (nobu)

- * committer
- * a.k.a. the "patch monster"
- * He wrote and is the maintainer of:
 - * optparse
 - * stringio
 - * io/wait
 - * iconv

Satoshi Nakagawa

- * patches for util.c

Narihiro Nakamura (nari)

- * committer
- * a.k.a. authorNari
- * working at GC

NAKAMURA, Hiroshi (nahi)

- * committer
- * He is the maintainer of:
 - * csv.rb (1.8)
 - * logger.rb
 - * soap/* (1.8)
 - * wsdl/* (1.8)
 - * xsd/* (1.8)

NAKAMURA, Usaku (usa)

- * committer
- * a.k.a. unak
- * He is the maintainer of mswin32 and mswin64 support.

NARUSE, Yui (naruse)

- * committer
- * a.k.a. "nurse"
- * Did much upon m17n.
- * He is the maintainer of:
 - * json
 - * nkf

Christian Neukirchen

- * a patch for webrick/httputils

Michael Neumann (mneumann)

- * committer
- * He is the maintainer of
 - * xmlrpc (1.8)
 - * gserver (1.8)

NISHIO Hirokazu

- * wrote a patch for CVE-2010-0541

Kazuhiro NISHIYAMA (kazu)

- * committer
- * a.k.a. znz

Go Noguchi

Martin Nordholts

- * misc/rdebug.el

nmu

- * a patch for socket

== O

okkez

- * He is a sysop of the Ruby Reference Manual Renewal Project.
- * fixed ipaddr.rb, ext/etc

Haruhiko Okumura

- * some of missing/* is based on his book:
 - * missing/erf.c
 - * missing/lgamma_r.c
 - * missing/tgamma.c

OMAE, jun

- * a patch for debug.rb

Eugene Ossintsev

- * documentation

== P

Heesob Park

* a patch for win32/win32.c.

pegacorn

* a patch for instruby.rb

== Q

== R

Gaston Ramos

* documentation

The Regents of the University of California

* missing/crypt.c

* missing/vsnprintf.c

Sam Roberts

* patch for socket

* documentation

Michal Rokos (michal)

* committer

* He was the maintainer of DJGPP support.

rubikitch

* a patch for io.c

Marcus Rueckert

* a patch for mkconfig.rb.

Run Paint Run Run

* patch for enc/unicode.c

* documentation

Sean Russell (ser)

* committer

* He wrote and is the maintainer of REXML.

== S

Kazuo Saito (ksaito)

* committer

* M17N

Tadashi Saito

- * patches for test/ruby/test_math.rb, thread_*.c, bignum.c
- * working upon BigDecimal.
- * did much upon documentation

Masahiro Sakai

- * a patch for io.c

Laurent Sansonetti

- * a patch for tool/ytab.sed

Jeff Saracco

- * documentation

Koichi Sasada (ko1)

- * committer
- * He wrote YARV.

Hugh Sasse

- * a patch for net/http
- * documentation

Charlie Savage

- * a patch for win32/Makefile.sub

Michael Scholz

- * a patch for ruby-mode.el

Arthur Schreiber

- * patch for net/http and rdoc.

Masatoshi SEKI (seki)

- * committer
- * He wrote and is the maintainer of:
 - * drb/*
 - * erb
 - * rinda

Roman Shterenzon

- * a patch for open-uri.

Kent Sibilev

Gavin Sinclair (gsinclair)

- * committer

John W. Small

- * He wrote gserver.rb

Yuki Sonoda (yugui)

- * committer
- * She is the maintainer of man/* manual pages and is the release manager of 1.9 series.
- * She wrote prime.rb.
- * A developer and a sysop of redmine.ruby-lang.org.

SOUMA, Yutaka

- * a patch for pack.c.

Tatsuki Sugiura

- * WebDAV support for net/http

Masaki Suketa (suke)

- * committer
- * He is the maintainer of win32ole

sheepman

- * patches for ruby.c, thread.c, stringio, enum.c, webrick, net/http

Siena. (siena)

- * committer

Kirill A. Shutemov

- * a patch for parse.y

Darren Smith

- * a patch for golf_prelude.rb

Richard M. Stallman

- * missing/alloca.c

Robin Stocker

- * documentation

Joshua Stowers

- * a patch for array.c

Marcus Stollsteimer (stomar)

- * committer
- * a maintainer of www.ruby-lang.org
- * patches for cgi (HTML5 tag maker), numeric.c, bigdecimal, ostruct.rb, prime.rb, and others
- * documentation

Adam Strzelecki

- * a patch for compile.c

Masashi Sumi

* improved net/pop.rb

Eric Sunshine

* NeXT OpenStep, Rhapsody support

Kouhei Sutou (kou)

* committer

* He wrote and is the maintainer of rss/*

David Symonds

* documentation

== T

TAKANO Mitsuhiro (takano32)

* committer

* He is the maintainer of IA-64 support.

* BigDecimal

TAKAO, Kouji (kouji)

* committer

* He is the maintainer of readline.

Nathaniel Talbott (ntalbott)

* committer

* He was the maintainer of test/unit, runit, rubyunit.

TANAKA, Akira (akr)

* committer

* Did much upon m17n.

* And he is the maintainer of:

* open-uri

* pathname

* pp

* resolv-replace

* resolv

* time

* tsort

Takaaki Tateishi (ttate)

* committer

* He was the maintainer of dl

Technorama Ltd. (technorama)

* committer

* openssl

Andrew Thompson

* a patch for socket.c IRIX support.

Dave Thomas (dave)

* committer

* a.k.a. the Pragmatic Programmer.

* He wrote rdoc.

Tietew

* patches for win32 support

Masahiro Tomita

* a patch for cgi.rb

Jakub Travník

* a patch for eval.c

Tom Truscott

* missing/crypt.c

== U

UEDA, Satoshi

* a patch for uri

Takaaki Uematsu (uema2)

* committer

* He was the maintainer of WinCE support.

UENO, Katsuhiko (katsu)

* committer

* He is the maintainer of zlib

Hajimu UMEMOTO

* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)

* committer

* a.k.a. mput.

* He is the branch maintainer of ruby_1_8_6 and ruby_1_8_7

* and is the release manager of 1.8.x-pXXX.

== V

Joel VanderWerf

* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen

== W

wanabe (wanabe)

* committer

* fixed YARV and Oniguruma.

Chun Wang

* a patch for time.rb

WATANABE, Hirofumi (eban)

* committer

* He is the maintainer of

* ftools (1.8)

* tmpdir

* un

* Win32API

WATANABE, Tetsuya

* a patch for ruby.c

William Webber (wew)

* committer

Jim Weirich (jim)

* committer

* He wrote Rake.

Nathan Weizenbaum

* fixed misc/ruby-mode.el.

why the lucky stiff (why)

* committer

* He is the maintainer of syck

Caley Woods

* documentation

Gary Wright

* documentation

== X

== Y

Akira Yamada (akira)

* committer

* He is the maintainer of ruby related packages at Debian project.

Keita Yamaguchi

- * patches for enum.c, parse.y
- * documentation

Hirokazu Yamamoto (ocean)

- * committer

Hirotaaka Yoshioka

- * a patch for improving SEGV handling

== Z

Aristarkh A Zagorodnikov

- * a patch for io.c

Alexander Zavorine

- * committer
- * He is the maintainer for Symbian OS.

Chiyuan Zhang

- * a patch for misc/ruby-mode.el.

Dee Zsombor (zunda)

- * a patch for thread_pthread.c

Dan Zwell

- * a patch for net/pop
- ```
frozen_string_literal: true
require 'rubygems/text'
```

```
class Gem::Licenses
```

```
 extend Gem::Text
```

```
 NONSTANDARD = 'Nonstandard'.freeze
```

```
 # Software Package Data Exchange (SPDX) standard open-source software
```

```
 # license identifiers
```

```
 LICENSE_IDENTIFIERS = %w(
 0BSD
```

```
 AAL
```

```
 ADSL
```

```
 AFL-1.1
```

```
 AFL-1.2
```

```
 AFL-2.0
```

```
 AFL-2.1
```

```
 AFL-3.0
```

AGPL-1.0  
AGPL-3.0  
AGPL-3.0-only  
AGPL-3.0-or-later  
AMDPLPA  
AML  
AMPAS  
ANTLR-PD  
APAFML  
APL-1.0  
APSL-1.0  
APSL-1.1  
APSL-1.2  
APSL-2.0  
Abstyles  
Adobe-2006  
Adobe-Glyph  
Afmparse  
Aladdin  
Apache-1.0  
Apache-1.1  
Apache-2.0  
Artistic-1.0  
Artistic-1.0-Perl  
Artistic-1.0-cl8  
Artistic-2.0  
BSD-1-Clause  
BSD-2-Clause  
BSD-2-Clause-FreeBSD  
BSD-2-Clause-NetBSD  
BSD-2-Clause-Patent  
BSD-3-Clause  
BSD-3-Clause-Attribution  
BSD-3-Clause-Clear  
BSD-3-Clause-LBNL  
BSD-3-Clause-No-Nuclear-License  
BSD-3-Clause-No-Nuclear-License-2014  
BSD-3-Clause-No-Nuclear-Warranty  
BSD-4-Clause  
BSD-4-Clause-UC  
BSD-Protection  
BSD-Source-Code  
BSL-1.0  
Bahyph  
Barr  
Beerware  
BitTorrent-1.0  
BitTorrent-1.1

Borceux  
CATOSL-1.1  
CC-BY-1.0  
CC-BY-2.0  
CC-BY-2.5  
CC-BY-3.0  
CC-BY-4.0  
CC-BY-NC-1.0  
CC-BY-NC-2.0  
CC-BY-NC-2.5  
CC-BY-NC-3.0  
CC-BY-NC-4.0  
CC-BY-NC-ND-1.0  
CC-BY-NC-ND-2.0  
CC-BY-NC-ND-2.5  
CC-BY-NC-ND-3.0  
CC-BY-NC-ND-4.0  
CC-BY-NC-SA-1.0  
CC-BY-NC-SA-2.0  
CC-BY-NC-SA-2.5  
CC-BY-NC-SA-3.0  
CC-BY-NC-SA-4.0  
CC-BY-ND-1.0  
CC-BY-ND-2.0  
CC-BY-ND-2.5  
CC-BY-ND-3.0  
CC-BY-ND-4.0  
CC-BY-SA-1.0  
CC-BY-SA-2.0  
CC-BY-SA-2.5  
CC-BY-SA-3.0  
CC-BY-SA-4.0  
CC0-1.0  
CDDL-1.0  
CDDL-1.1  
CDLA-Permissive-1.0  
CDLA-Sharing-1.0  
CECILL-1.0  
CECILL-1.1  
CECILL-2.0  
CECILL-2.1  
CECILL-B  
CECILL-C  
CNRI-Jython  
CNRI-Python  
CNRI-Python-GPL-Compatible  
CPAL-1.0  
CPL-1.0



CPOL-1.02  
CUA-OPL-1.0  
Caldera  
CIBArtistic  
Condor-1.1  
Crossword  
CrystalStacker  
Cube  
D-FSL-1.0  
DOC  
DSDP  
Dotseqn  
ECL-1.0  
ECL-2.0  
EFL-1.0  
EFL-2.0  
EPL-1.0  
EPL-2.0  
EUDatagrid  
EUPL-1.0  
EUPL-1.1  
EUPL-1.2  
Entessa  
ErlPL-1.1  
Eurosym  
FSFAP  
FSFUL  
FSFULLR  
FTL  
Fair  
Frameworkx-1.0  
FreeImage  
GFDL-1.1  
GFDL-1.1-only  
GFDL-1.1-or-later  
GFDL-1.2  
GFDL-1.2-only  
GFDL-1.2-or-later  
GFDL-1.3  
GFDL-1.3-only  
GFDL-1.3-or-later  
GL2PS  
GPL-1.0  
GPL-1.0+  
GPL-1.0-only  
GPL-1.0-or-later  
GPL-2.0  
GPL-2.0+

GPL-2.0-only  
GPL-2.0-or-later  
GPL-2.0-with-GCC-exception  
GPL-2.0-with-autoconf-exception  
GPL-2.0-with-bison-exception  
GPL-2.0-with-classpath-exception  
GPL-2.0-with-font-exception  
GPL-3.0  
GPL-3.0+  
GPL-3.0-only  
GPL-3.0-or-later  
GPL-3.0-with-GCC-exception  
GPL-3.0-with-autoconf-exception  
Giftware  
Glide  
Glulxe  
HPND  
HaskellReport  
IBM-pibs  
ICU  
IJG  
IPA  
IPL-1.0  
ISC  
ImageMagick  
Imlib2  
Info-ZIP  
Intel  
Intel-ACPI  
Interbase-1.0  
JSON  
JasPer-2.0  
LAL-1.2  
LAL-1.3  
LGPL-2.0  
LGPL-2.0+  
LGPL-2.0-only  
LGPL-2.0-or-later  
LGPL-2.1  
LGPL-2.1+  
LGPL-2.1-only  
LGPL-2.1-or-later  
LGPL-3.0  
LGPL-3.0+  
LGPL-3.0-only  
LGPL-3.0-or-later  
LGPLLR  
LPL-1.0

LPL-1.02  
LPPL-1.0  
LPPL-1.1  
LPPL-1.2  
LPPL-1.3a  
LPPL-1.3c  
Latex2e  
Leptonica  
LiLiQ-P-1.1  
LiLiQ-R-1.1  
LiLiQ-Rplus-1.1  
Libpng  
MIT  
MIT-CMU  
MIT-advertising  
MIT-enna  
MIT-feh  
MITNFA  
MPL-1.0  
MPL-1.1  
MPL-2.0  
MPL-2.0-no-copyleft-exception  
MS-PL  
MS-RL  
MTLL  
MakeIndex  
MirOS  
Motosoto  
Multics  
Mup  
NASA-1.3  
NBPL-1.0  
NCSA  
NGPL  
NLOD-1.0  
NLPL  
NOSL  
NPL-1.0  
NPL-1.1  
NPOSL-3.0  
NRL  
NTP  
Naumen  
Net-SNMP  
NetCDF  
Newsletr  
Nokia  
Noweb

Nunit  
OCCT-PL  
OCLC-2.0  
ODbL-1.0  
OFL-1.0  
OFL-1.1  
OGTSL  
OLDAP-1.1  
OLDAP-1.2  
OLDAP-1.3  
OLDAP-1.4  
OLDAP-2.0  
OLDAP-2.0.1  
OLDAP-2.1  
OLDAP-2.2  
OLDAP-2.2.1  
OLDAP-2.2.2  
OLDAP-2.3  
OLDAP-2.4  
OLDAP-2.5  
OLDAP-2.6  
OLDAP-2.7  
OLDAP-2.8  
OML  
OPL-1.0  
OSET-PL-2.1  
OSL-1.0  
OSL-1.1  
OSL-2.0  
OSL-2.1  
OSL-3.0  
OpenSSL  
PDDL-1.0  
PHP-3.0  
PHP-3.01  
Plexus  
PostgreSQL  
Python-2.0  
QPL-1.0  
Qhull  
RHeCos-1.1  
RPL-1.1  
RPL-1.5  
RPSL-1.0  
RSA-MD  
RSCPL  
Rdisc  
Ruby

SAX-PD  
SCEA  
SGI-B-1.0  
SGI-B-1.1  
SGI-B-2.0  
SISSL  
SISSL-1.2  
SMLNJ  
SMPPL  
SNIA  
SPL-1.0  
SWL  
Saxpath  
Sendmail  
SimPL-2.0  
Sleepycat  
Spencer-86  
Spencer-94  
Spencer-99  
StandardML-NJ  
SugarCRM-1.1.3  
TCL  
TCP-wrappers  
TMate  
TORQUE-1.1  
TOSL  
UPL-1.0  
Unicode-DFS-2015  
Unicode-DFS-2016  
Unicode-TOU  
Unlicense  
VOSTROM  
VSL-1.0  
Vim  
W3C  
W3C-19980720  
W3C-20150513  
WTFPL  
Watcom-1.0  
Wsuipa  
X11  
XFree86-1.1  
XSkat  
Xerox  
Xnet  
YPL-1.0  
YPL-1.1  
ZPL-1.1

ZPL-2.0  
ZPL-2.1  
Zed  
Zend-2.0  
Zimbra-1.3  
Zimbra-1.4  
Zlib  
bzip2-1.0.5  
bzip2-1.0.6  
curl  
diffmark  
dvi2pdf  
eCos-2.0  
eGenix  
gSOAP-1.3b  
gnuplot  
iMatix  
libtiff  
mpich2  
psfrag  
psutils  
wxWindows  
xinetd  
xpp  
zlib-acknowledgement  
)freeze

# exception identifiers

EXCEPTION\_IDENTIFIERS = %w(

389-exception  
Autoconf-exception-2.0  
Autoconf-exception-3.0  
Bison-exception-2.2  
Bootloader-exception  
CLISP-exception-2.0  
Classpath-exception-2.0  
DigiRule-FOSS-exception  
FLTK-exception  
Fawkes-Runtime-exception  
Font-exception-2.0  
GCC-exception-2.0  
GCC-exception-3.1  
LZMA-exception  
Libtool-exception  
Linux-syscall-note  
Nokia-Qt-exception-1.1  
OCCT-exception-1.0  
Qwt-exception-1.0

```
WxWindows-exception-3.1
eCos-exception-2.0
freertos-exception-2.0
gnu-javamail-exception
i2p-gpl-java-exception
mif-exception
openvpn-openssl-exception
u-boot-exception-2.0
).freeze
```

```
REGEXP = %r{
 \A
 (
 #{Regexp.union(LICENSE_IDENTIFIERS)}
 \+?
 (\s WITH \s #{Regexp.union(EXCEPTION_IDENTIFIERS)})?
 | #{NONSTANDARD}
)
 \Z
}ox.freeze
```

```
def self.match?(license)
 !REGEXP.match(license).nil?
end
```

```
def self.suggestions(license)
 by_distance = LICENSE_IDENTIFIERS.group_by do |identifier|
 levenshtein_distance(identifier, license)
 end
 lowest = by_distance.keys.min
 return unless lowest < license.size
 by_distance[lowest]
end
end
```

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```
frozen_string_literal: true
```

```
RSpec.describe "bundle licenses" do
 before :each do
 install_gemfile <<-G
 source "file://#{gem_repo1}"
 gem "rails"
 gem "with_license"
 G
 end

 it "prints license information for all gems in the bundle" do
 bundle "licenses"

 loaded_bundler_spec = Bundler.load.specs["bundler"]
 expected = if !loaded_bundler_spec.empty?
 loaded_bundler_spec[0].license
 else
 "Unknown"
 end

 expect(out).to include("bundler: #{expected}")
 expect(out).to include("with_license: MIT")
 end

 it "performs an automatic bundle install" do
 gemfile <<-G
 source "file://#{gem_repo1}"
```

```
gem "rails"
gem "with_license"
gem "foo"
```

G

```
bundle "config auto_install 1"
bundle :licenses
expect(out).to include("Installing foo 1.0")
end
end
```

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ccan/build\_assert/build\_assert.h::  
ccan/check\_type/check\_type.h::  
ccan/container\_of/container\_of.h::  
ccan/str/str.h::

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include/ruby/onigmo.h::

include/ruby/oniguruma.h::

regcomp.c::

regenc.c::

regenc.h::

regerror.c::

regexec.c::

regint.h::

regparse.c::

regparse.h::

enc/ascii.c::

enc/big5.c::

enc/cp949.c::

enc/emacs\_mule.c::

enc/encdb.c::

enc/euc\_jp.c::

enc/euc\_kr.c::

enc/euc\_tw.c::

enc/gb18030.c::

enc/gb2312.c::

enc/gbk.c::

enc/iso\_8859\_1.c::

enc/iso\_8859\_10.c::

enc/iso\_8859\_11.c::

enc/iso\_8859\_13.c::

enc/iso\_8859\_14.c::

enc/iso\_8859\_15.c::

enc/iso\_8859\_16.c::

enc/iso\_8859\_2.c::

enc/iso\_8859\_3.c::

enc/iso\_8859\_4.c::

enc/iso\_8859\_5.c::

enc/iso\_8859\_6.c::

enc/iso\_8859\_7.c::

enc/iso\_8859\_8.c::

enc/iso\_8859\_9.c::  
enc/koi8\_r.c::  
enc/koi8\_u.c::  
enc/shift\_jis.c::  
enc/unicode.c::  
enc/us\_ascii.c::  
enc/utf\_16be.c::  
enc/utf\_16le.c::  
enc/utf\_32be.c::  
enc/utf\_32le.c::  
enc/utf\_8.c::  
enc/windows\_1251.c::

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enc/trans/GB/UCS%GB12345.src::  
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enc/trans/JIS/JISX0208\@1990%UCS.src::  
enc/trans/JIS/JISX0212%UCS.src::  
enc/trans/JIS/UCS%JISX0201-KANA.src::  
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enc/trans/JIS/UCS@BMP%JISX0213-2.src::

enc/trans/JIS/UCS@SIP%JISX0213-1.src::

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A C-program for MT19937, with initialization improved 2002/2/10.

Coded by Takuji Nishimura and Makoto Matsumoto.

This is a faster version by taking Shawn Cokus's optimization, Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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vm\_dump.c:procstat\_vm::

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strftime.c::

include/ruby/st.h::

missing/acosh.c::

missing/alloca.c::  
missing/dup2.c::  
missing/erf.c::  
missing/finite.c::  
missing/hypot.c::  
missing/isinf.c::  
missing/isnan.c::  
missing/lgamma\_r.c::  
missing/memcmp.c::  
missing/memmove.c::  
missing/strchr.c::  
missing/strerror.c::  
missing/strstr.c::  
missing/tgamma.c::  
ext/date/date\_strftime.c::  
ext/digest/sha1/sha1.c::  
ext/digest/sha1/sha1.h::  
ext/sdbm/\_sdbm.c::  
ext/sdbm/sdbm.h::

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(Arranged for libc by Todd C. Miller)  
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## 1.101 glibc 2.32

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@subheading END OF TERMS AND CONDITIONS

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```
libfreedreno_layout = static_library(
 'freedreno_layout',
 [
 'fd5_layout.c',
 'fd6_layout.c',
 'freedreno_layout.c',
],
 include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
 c_args : [no_override_init_args],
 gnu_symbol_visibility : 'hidden',
 dependencies : idep_nir_headers,
 build_by_default : false,
)
```

```
foreach major : ['5', '6']
 test(
 'fd' + major + '_layout',
```

```
executable(
 'fd' + major + '_layout',
 [
 'fd_layout_test.c',
 'fd' + major + '_layout_test.c',
 freedreno_xml_header_files,
],
 link_with: libfreedreno_layout,
 dependencies : idep_mesautil,
 include_directories: [
 inc_include,
 inc_src,
 inc_mapi,
 inc_mesa,
 inc_gallium,
 inc_gallium_aux,
 inc_freedreno],
),
 suite : ['freedreno'],
)
endforeach
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```

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\* /opt/cola/permits/1270821367\_1644847213.98/0/snappy-java-1-0-5-2-sources-jar/org/xerial/snappy/package-info.java  
\* /opt/cola/permits/1270821367\_1644847213.98/0/snappy-java-1-0-5-2-sources-jar/org/xerial/snappy/SnappyError.java  
\* /opt/cola/permits/1270821367\_1644847213.98/0/snappy-java-1-0-5-2-sources-jar/org/xerial/snappy/SnappyNativeAPI.java

```
* /opt/cola/permits/1270821367_1644847213.98/0/snappy-java-1-0-5-2-sources-
jar/org/xerial/snappy/SnappyBundleActivator.java
* /opt/cola/permits/1270821367_1644847213.98/0/snappy-java-1-0-5-2-sources-jar/org/xerial/snappy/Snappy.java
* /opt/cola/permits/1270821367_1644847213.98/0/snappy-java-1-0-5-2-sources-
jar/org/xerial/snappy/SnappyOutputStream.java
* /opt/cola/permits/1270821367_1644847213.98/0/snappy-java-1-0-5-2-sources-
jar/org/xerial/snappy/SnappyErrorCode.java
```

## 1.107 iputils 20160308-10.el7

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## 1.108 gzip 1.5-10.el7

## 1.109 nettle 2.7.1 8.el7

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```
/* pbkdf2-hmac-sha256.c
*
* PKCS #5 PBKDF2 used with HMAC-SHA256, see RFC 2898.
*/

/* nettle, low-level cryptographics library
*
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*
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*
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* the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
* MA 02111-1301, USA.
*/

/* crypto/des/destest.c */
/* Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
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## 1.112 dmidecode 3.2-5.el7\_9.1

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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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\* Utility class for { @link ByteBuf } that encodes and decodes to and from  
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\* <p>

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\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java

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jar/io/netty/handler/codec/json/JsonObjectDecoder.java  
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jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java  
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jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java  
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\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/HeadersUtils.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java  
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\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionResult.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/ProtocolDetectionState.java

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\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/CharSequenceValueConverter.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/ValueConverter.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/DefaultHeadersImpl.java

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\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/Crc32c.java

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*/
/*
* Written by Robert Harder and released to the public domain, as explained at
* https://creativecommons.org/licenses/publicdomain
*/
/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
* Robert Harder's Public Domain
* Base64 Encoder/Decoder.
*/

```

Found in path(s):

```

* /opt/cola/permits/1337082968_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-
jar/io/netty/handler/codec/base64/Base64Dialect.java

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* /opt/cola/permits/1337082968_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-
jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1337082968_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-
jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1337082968_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-
jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1337082968_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-
jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/cola/permits/1337082968_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-
jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1337082968_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

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jar/io/netty/handler/codec/compression/CompressionUtil.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

jar/io/netty/handler/codec/DateFormatter.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

jar/io/netty/handler/codec/DatagramPacketDecoder.java

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jar/io/netty/handler/codec/compression/Lz4XXHash32.java

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\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

jar/io/netty/handler/codec/EmptyHeaders.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-



jar/io/netty/handler/codec/DefaultHeaders.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

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jar/io/netty/handler/codec/marshalling/package-info.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

jar/io/netty/handler/codec/PrematureChannelClosureException.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

jar/io/netty/handler/codec/serialization/ClassResolver.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

jar/io/netty/handler/codec/marshalling/MarshallerProvider.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

jar/io/netty/handler/codec/compression/package-info.java

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jar/io/netty/handler/codec/compression/ZlibWrapper.java

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jar/io/netty/handler/codec/ByteToMessageCodec.java

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jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

jar/io/netty/handler/codec/compression/ZlibUtil.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

jar/io/netty/handler/codec/compression/Snappy.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

jar/io/netty/handler/codec/LengthFieldPrepender.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-

jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/serialization/ReferenceMap.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/ReplayingDecoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/ZlibDecoder.java

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\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/base64/package-info.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java

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\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/serialization/ObjectDecoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/MessageAggregator.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/DecoderResult.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/serialization/package-info.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/CodecException.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/MessageToMessageDecoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/base64/Base64Encoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/serialization/ObjectEncoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/LineBasedFrameDecoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/string/StringDecoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/DecompressionException.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/CompressionException.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/string/StringEncoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/string/package-info.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/serialization/ClassResolvers.java

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\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/MessageToByteEncoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/JZlibDecoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/JZlibEncoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/package-info.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/TooLongFrameException.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java

\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/base64/Base64Decoder.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/MessageToMessageCodec.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/serialization/CachingClassResolver.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/DecoderException.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/EncoderException.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/Delimiters.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/protobuf/package-info.java  
\* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/ZlibEncoder.java  
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*/
/**
* A decoder that splits the received {@link ByteBuffer}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuffer#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 2 (= the length of the Length field)
*
* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)

```

```

* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = -2 (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* lengthFieldOffset = 2 (= the length of Header 1)
* lengthFieldLength = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +-----+-----+-----+ +-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" | | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+ +-----+-----+-----+
* </pre>
*

```

\* 

### 3 bytes length field at the beginning of 5 bytes header, do not strip header

\*

\* This is an advanced example that shows the case where there is an extra header between the length field and the message body. You have to specify a positive `lengthAdjustment` so that the decoder counts the extra header into the frame length calculation.

\*

\* `lengthFieldOffset = 0`

\* `lengthFieldLength = 3`

\* `lengthAdjustment = 2` (= the length of Header 1)

\* `initialBytesToStrip = 0`

\*

\* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)

\* +-----+-----+-----+-----+    +-----+-----+-----+-----+

\* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |

\* | 0x00000C | 0xCAFE | "HELLO, WORLD" |    | 0x00000C | 0xCAFE | "HELLO, WORLD" |

\* +-----+-----+-----+-----+    +-----+-----+-----+-----+

\*

\*

\* 

### 2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field

\*

\* This is a combination of all the examples above. There are the prepended header before the length field and the extra header after the length field. The prepended header affects the `lengthFieldOffset` and the extra header affects the `lengthAdjustment`. We also specified a non-zero `initialBytesToStrip` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `0` for `initialBytesToSkip`.

\*

\* `lengthFieldOffset = 1` (= the length of HDR1)

\* `lengthFieldLength = 2`

\* `lengthAdjustment = 1` (= the length of HDR2)

\* `initialBytesToStrip = 3` (= the length of HDR1 + LEN)

\*

\* BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)

\* +-----+-----+-----+-----+    +-----+-----+-----+-----+

\* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |

\* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |    | 0xFE | "HELLO, WORLD" |

\* +-----+-----+-----+-----+    +-----+-----+-----+-----+

\*

\*

\* 

### 2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field, the length field represents the length of the whole message

\*

\* Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the

```

* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
* initialBytesToStrip = 3
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1337082968_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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```

* /opt/cola/permits/1337082968_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/META-
INF/maven/io.netty.netty-codec/pom.xml

```

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/*

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- \* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/GzipOptions.java
- \* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
- \* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/BrotliOptions.java
- \* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/CompressionOptions.java
- \* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/BrotliEncoder.java
- \* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/BrotliDecoder.java
- \* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/DeflateOptions.java
- \* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/ZstdConstants.java
- \* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/Brotli.java
- \* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/ZstdOptions.java
- \* /opt/cola/permits/1337082968\_1654119332.3321962/0/netty-codec-4-1-66-final-sources-1-jar/io/netty/handler/codec/compression/ZstdEncoder.java

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## 1.122 glew 1.7.0

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Mesa 3-D graphics library

Version: 7.0

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

LZ4 Library

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The class org.apache.lucene.util.WeakIdentityMap was derived from the Apache CXF project and is Apache License 2.0.

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The full snowball package is available from  
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The KStem stemmer in  
`analysis/common/src/org/apache/lucene/analysis/en`  
was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst)  
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stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:  
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`analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,  
`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`,  
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See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German,Spanish,Finnish,French,Hungarian,Italian,Portuguese,Russian and Swedish light stemmers  
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and  
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`analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`  
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## 1.124 biosdevname 0.7.3 2.el7

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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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"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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## 1.127 multi-json 1.12.1

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## 1.129 ffi-yajl 2.3.0

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2. [2]Mark Andrews <mark\_andrews@isc.org> Leitch atomic clock controller
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
11. [12]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)

13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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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25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
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27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
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34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
35. [38]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
37. [40]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
38. [41]Jeffrey Mogul <mogul@pa.dec.com> ntpttrace utility
39. [42]Tom Moore <tmoore@fieval.daytonoh.ncr.com> i386 svr4 port
40. [43]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
41. [44]Derek Mulcahy <derek@toybox.demon.co.uk> and [45]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
42. [46]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code

- maintenance
43. [47]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>  
monitoring/trap scripts, statistics file handling
  44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
  45. [49]Wilfredo Snchez <wsanchez@apple.com> added support for  
NetInfo
  46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
  47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of  
space on the stuff in the html/pic/ subdirectory
  48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
  49. [53]Michael Shields <shields@tembel.org> USNO clock driver
  50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock  
driver
  51. [55]Harlan Stenn <harlan@pfc.com> GNU automake/autoconfigure  
makeover, various other bits (see the ChangeLog)
  52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
  53. [57]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast  
support
  54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock  
driver
  55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic  
TrueTime clock driver
  56. [60]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and  
validated HTML documents according to the HTML DTD
- 

## References

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## 1.134 sysstat 10.1.5 19.e17

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```
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```

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

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`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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Version 2, June 1991

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# 1.141 guava 16.0

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## 1.142 libxmu 1.1.2 2.el7

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Version 3, 29 June 2007

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```
-makefile-
```

```
BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
```

```
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```

```
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```

```
Commands to generate dependency files
```

```
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
```

```

GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

Shared object suffix
SO = so

Non-shared intermediate object suffix
STATIC_O = ao

Compilation rules
%.${STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[:]*^1.o $@ : /g\" > $@; \
[-s $@] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \

```

```
| sed \"s/(\$*)\.o[:]*^1.o $@ : /g\" > $@; \
[-s $@] || rm -f $@'
```

## Versioned libraries rules

```
%. $(SO). $(SO_TARGET_VERSION_MAJOR): %. $(SO). $(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO). $(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO). $(SO_TARGET_VERSION) $@
```

## Bind internal references

```
LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
```

```
Dependencies [i.e. map files] for the final library
BIR_DEPS=
```

```
Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
```

```
End BSD-specific setup
Apache License
```

Version 2.0, January 2004

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## 1.146 libjpeg 1.2.90-8.el7

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\* jinput.c

\*

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\*

\* This file contains input control logic for the JPEG decompressor.

\* These routines are concerned with controlling the decompressor's input

\* processing (marker reading and coefficient decoding). The actual input

\* reading is done in jdmarker.c, jdhuft.c, and jdphuff.c.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdinput.c

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1.2.90/simd/jfmmxint.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2int-

64.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-

1.2.90/simd/jiss2int.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2int-

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\* jdmarker.c

\*

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\*

\* This file contains routines to decode JPEG datastream markers.

\* Most of the complexity arises from our desire to support input

- \* suspension: if not all of the data for a marker is available,
- \* we must exit back to the application. On resumption, we reprocess
- \* the marker.
- \*/

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\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmarker.c  
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- \*
- \* This file contains Huffman entropy encoding routines.
- \*
- \* Much of the complexity here has to do with supporting output suspension.
- \* If the data destination module demands suspension, we want to be able to
- \* back up to the start of the current MCU. To do this, we copy state
- \* variables into local working storage, and update them back to the
- \* permanent JPEG objects only upon successful completion of an MCU.
- \*/

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\* jdapistd.c

\*

```

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* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

```

Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapistd.c
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* jidctfst.c
*
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*
* This file contains a fast, not so accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,

```

- \* accuracy is lost due to imprecise representation of the scaled
- \* quantization values. The smaller the quantization table entry, the less
- \* precise the scaled value, so this implementation does worse with high-
- \* quality-setting files than with low-quality ones.

\*/

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\* jdct.h

\*

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\*

\* This include file contains common declarations for the forward and

\* inverse DCT modules. These declarations are private to the DCT managers

\* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.

\* The individual DCT algorithms are kept in separate files to ease

\* machine-dependent tuning (e.g., assembly coding).

\*/

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1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/java/TJExample.java  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/java/org/libjpegturbo/turbojpeg/TJ.java  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/java/TJUnitTest.java  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg-jni.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jidctred.c

\*

\* Copyright (C) 1994-1998, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains inverse-DCT routines that produce reduced-size output:

\* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.

\*

\* The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)

\* algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step

\* with an 8-to-4 step that produces the four averages of two adjacent outputs

\* (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).

\* These steps were derived by computing the corresponding values at the end

```
* of the normal LL&M code, then simplifying as much as possible.
*
* 1x1 is trivial: just take the DC coefficient divided by 8.
*
* See jidctint.c for additional comments.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctred.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* jdsample.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains upsampling routines.
*
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is
* Digital Image Warping, George Wolberg, 1990.
* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdsample.c
No license file was found, but licenses were detected in source scan.
```

```
/*
* jdmerge.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
```

\* For conditions of distribution and use, see the accompanying README file.  
 \*  
 \* This file contains code for merged upsampling/color conversion.  
 \*  
 \* This file combines functions from jdsample.c and jdcolor.c;  
 \* read those files first to understand what's going on.  
 \*  
 \* When the chroma components are to be upsampled by simple replication  
 \* (ie, box filtering), we can save some work in color conversion by  
 \* calculating all the output pixels corresponding to a pair of chroma  
 \* samples at one time. In the conversion equations  
 \*  $R = Y + K1 * Cr$   
 \*  $G = Y + K2 * Cb + K3 * Cr$   
 \*  $B = Y + K4 * Cb$   
 \* only the Y term varies among the group of pixels corresponding to a pair  
 \* of chroma samples, so the rest of the terms can be calculated just once.  
 \* At typical sampling ratios, this eliminates half or three-quarters of the  
 \* multiplications needed for color conversion.  
 \*  
 \* This file currently provides implementations for the following cases:  
 \* YCbCr => RGB color conversion only.  
 \* Sampling ratios of 2h1v or 2h2v.  
 \* No scaling needed at upsample time.  
 \* Corner-aligned (non-CCIR601) sampling alignment.  
 \* Other special cases could be added, but in most applications these are  
 \* the only common cases. (For uncommon cases we fall back on the more  
 \* general code in jdsample.c and jdcolor.c.)  
 \*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
 archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmerge.c  
 No license file was found, but licenses were detected in source scan.

/\*

\* jctrans.c

\*

\* Copyright (C) 1995-1998, Thomas G. Lane.

\* Modified 2000-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains library routines for transcoding compression,

\* that is, writing raw DCT coefficient arrays to an output JPEG file.

\* The routines in jcapimin.c will also be needed by a transcoder.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jctrans.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jcrepct.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the compression preprocessing controller.

\* This controller manages the color conversion, downsampling,

\* and edge expansion steps.

\*

\* Most of the complexity here is associated with buffering input rows

\* as required by the downsampler. See the comments at the head of

\* jcsample.c for the downsampler's needs.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcrepct.c

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

/\*

\* jcapimin.c

\*

\* Copyright (C) 1994-1998, Thomas G. Lane.

\* Modified 2003-2010 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains application interface code for the compression half

\* of the JPEG library. These are the "minimum" API routines that may be

\* needed in either the normal full-compression case or the transcoding-only

\* case.

\*

\* Most of the routines intended to be called directly by an application

\* are in this file or in jcapistd.c. But also see jcparam.c for

\* parameter-setup helper routines, jcomapi.c for routines shared by

\* compression and decompression, and jctrans.c for the transcoding case.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapimin.c

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

```
/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdpostct.c
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.
```

```
/*
 * jdmgext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
```

\* Modifications:  
\* Copyright (C) 2011, D. R. Commander.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains code for merged upsampling/color conversion.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmrgext.c  
No license file was found, but licenses were detected in source scan.

/\*

\* rdtarga.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains routines to read input images in Targa format.  
\*  
\* These routines may need modification for non-Unix environments or  
\* specialized applications. As they stand, they assume input from  
\* an ordinary stdio stream. They further assume that reading begins  
\* at the start of the file; start\_input may need work if the  
\* user interface has already read some data (e.g., to determine that  
\* the file is indeed Targa format).  
\*  
\* Based on code contributed by Lee Daniel Crocker.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdtarga.c  
No license file was found, but licenses were detected in source scan.

/\*

\* transupp.c

\*

\* This file was part of the Independent JPEG Group's software:  
\* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.  
\* Modifications:  
\* Copyright (C) 2010, D. R. Commander.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains image transformation routines and other utility code  
\* used by the jpegtran sample application. These are NOT part of the core  
\* JPEG library. But we keep these routines separate from jpegtran.c to

- \* ease the task of maintaining jpegtran-like programs that have other user
- \* interfaces.
- \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jddctmgr.c

\*

- \* This file was part of the Independent JPEG Group's software:
- \* Copyright (C) 1994-1996, Thomas G. Lane.
- \* Modified 2002-2010 by Guido Vollbeding.
- \* Modifications:
- \* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
- \* Copyright (C) 2010, D. R. Commander.
- \* For conditions of distribution and use, see the accompanying README file.

\*

- \* This file contains the inverse-DCT management logic.
- \* This code selects a particular IDCT implementation to be used,
- \* and it performs related housekeeping chores. No code in this file
- \* is executed per IDCT step, only during output pass setup.

\*

- \* Note that the IDCT routines are responsible for performing coefficient
- \* dequantization as well as the IDCT proper. This module sets up the
- \* dequantization multiplier table needed by the IDCT routine.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jddctmgr.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jQuery JavaScript Library v1.3.2

\* <http://jquery.com/>

\*

- \* Copyright (c) 2009 John Resig
- \* Dual licensed under the MIT and GPL licenses.
- \* <http://docs.jquery.com/License>

\*

- \* Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)

- \* Revision: 6246

\*/

/\*

\* Sizzle CSS Selector Engine - v0.9.3

```
* Copyright 2009, The Dojo Foundation
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/
/*
* jQuery UI 1.7.2
*
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
*
* http://docs.jquery.com/UI
*/
/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/doc/html/jquery.js
```

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

```
/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccoefct.c
```

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

```
/*
* jerror.h
*
*/
```



\* Copyright (C) 1994-1997, Thomas G. Lane.  
\* Modified 1997-2009 by Guido Vollbeding.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file defines the error and message codes for the JPEG library.  
\* Edit this file to add new codes, or to translate the message strings to  
\* some other language.  
\* A set of error-reporting macros are defined too. Some applications using  
\* the JPEG library may wish to include this file to get the error codes  
\* and/or the macros.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.h  
No license file was found, but licenses were detected in source scan.

/\*

\* rdcolmap.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file implements djpeg's "-map file" switch. It reads a source image  
\* and constructs a colormap to be supplied to the JPEG decompressor.  
\*  
\* Currently, these file formats are supported for the map file:  
\* GIF: the contents of the GIF's global colormap are used.  
\* PPM (either text or raw flavor): the entire file is read and  
\* each unique pixel value is entered in the map.  
\* Note that reading a large PPM file will be horrendously slow.  
\* Typically, a PPM-format map file should contain just one pixel  
\* of each desired color. Such a file can be extracted from an  
\* ordinary image PPM file with ppmtomap(1).  
\*  
\* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not  
\* currently implemented.  
\*/

/\* Portions of this code are based on the PBMPLUS library, which is:

\*\*

\*\* Copyright (C) 1988 by Jef Poskanzer.

\*\*

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\*\* documentation for any purpose and without fee is hereby granted, provided  
\*\* that the above copyright notice appear in all copies and that both that  
\*\* copyright notice and this permission notice appear in supporting

\*\* documentation. This software is provided "as is" without express or  
\*\* implied warranty.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdcolmap.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jdcoefct.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1994-1997, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2010, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the coefficient buffer controller for decompression.

\* This controller is the top level of the JPEG decompressor proper.

\* The coefficient buffer lies between entropy decoding and inverse-DCT steps.

\*

\* In buffered-image mode, this controller is the interface between

\* input-oriented processing and output-oriented processing.

\* Also, the input side (only) is used when reading a file for transcoding.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcoefct.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jcomapi.c

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains application interface routines that are used for both

\* compression and decompression.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcomapi.c  
No license file was found, but licenses were detected in source scan.

```

/*
 * djpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * djpeg [options] inputfile outputfile
 * djpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * djpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/djpeg.c
No license file was found, but licenses were detected in source scan.

```

```

/*
 * jmorecfg.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
 */

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-

```

archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmorecfg.h  
No license file was found, but licenses were detected in source scan.

```
{\rtf1\ansi\ansicpg1252\cocoartf1038\cocoasubrtf360
{\fonttbl{\f0\fswiss\fcharset0 Helvetica;}
{\colortbl;\red255\green255\blue255;}
\margl1440\margr1440\vieww26380\viewh15840\viewkind0
\defstab720
\pard\pardefstab720\ql\qnatural
```

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/release/ReadMe.rtf
```

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

```
/*
 * jcmaint.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampled data in the JPEG colorspace.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmaint.c
```

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

```
/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy encoding routines for JPEG
 * (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcarith.c
```

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

```
/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
```

\*\* that the above copyright notice appear in all copies and that both that  
\*\* copyright notice and this permission notice appear in supporting  
\*\* documentation. This software is provided "as is" without express or  
\*\* implied warranty.  
\*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdppm.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jcphuff.c

\*

\* Copyright (C) 1995-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains Huffman entropy encoding routines for progressive JPEG.

\*

\* We do not support output suspension in this module, since the library

\* currently does not allow multiple-scan files to be written with output

\* suspension.

\*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcphuff.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jmehsys.h

\*

\* Copyright (C) 1992-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This include file defines the interface between the system-independent

\* and system-dependent portions of the JPEG memory manager. No other

\* modules need include it. (The system-independent portion is jmemmgr.c;

\* there are several different versions of the system-dependent portion.)

\*

\* This file works as-is for the system-dependent memory managers supplied

\* in the IJG distribution. You may need to modify it if you write a

\* custom memory manager. If system-dependent changes are needed in

\* this file, the best method is to #ifdef them based on a configuration

\* symbol supplied in jconfig.h, as we have done with USE\_MSDOS\_MEMMGR

\* and USE\_MAC\_MEMMGR.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmehmsys.h  
No license file was found, but licenses were detected in source scan.

/\*

\* jidctint.c

\*

\* Copyright (C) 1991-1998, Thomas G. Lane.

\* Modification developed 2002-2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a slow-but-accurate integer implementation of the

\* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine

\* must also perform dequantization of the input coefficients.

\*

\* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT

\* on each row (or vice versa, but it's more convenient to emit a row at

\* a time). Direct algorithms are also available, but they are much more

\* complex and seem not to be any faster when reduced to code.

\*

\* This implementation is based on an algorithm described in

\* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT

\* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,

\* Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.

\* The primary algorithm described there uses 11 multiplies and 29 adds.

\* We use their alternate method with 12 multiplies and 32 adds.

\* The advantage of this method is that no data path contains more than one

\* multiplication; this allows a very simple and accurate implementation in

\* scaled fixed-point arithmetic, with a minimal number of shifts.

\*

\* We also provide IDCT routines with various output sample block sizes for

\* direct resolution reduction or enlargement without additional resampling:

\* NxN (N=1...16) pixels for one 8x8 input DCT block.

\*

\* For N<8 we simply take the corresponding low-frequency coefficients of

\* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block

\* to yield the downsampled outputs.

\* This can be seen as direct low-pass downsampling from the DCT domain

\* point of view rather than the usual spatial domain point of view,

\* yielding significant computational savings and results at least

\* as good as common bilinear (averaging) spatial downsampling.

\*

\* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as

\* lower frequencies and higher frequencies assumed to be zero.

- \* It turns out that the computational effort is similar to the 8x8 IDCT
- \* regarding the output size.
- \* Furthermore, the scaling and descaling is the same for all IDCT sizes.
- \*
- \* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
- \* since there would be too many additional constants to pre-calculate.
- \*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctint.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jmemnobs.c

\*

- \* Copyright (C) 1992-1996, Thomas G. Lane.
- \* This file is part of the Independent JPEG Group's software.
- \* For conditions of distribution and use, see the accompanying README file.
- \*
- \* This file provides a really simple implementation of the system-
- \* dependent portion of the JPEG memory manager. This implementation
- \* assumes that no backing-store files are needed: all required space
- \* can be obtained from malloc().
- \* This is very portable in the sense that it'll compile on almost anything,
- \* but you'd better have lots of main memory (or virtual memory) if you want
- \* to process big images.
- \* Note that the max\_memory\_to\_use option is ignored by this implementation.
- \*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemnobs.c  
No license file was found, but licenses were detected in source scan.

/\*

\* cjpeg.c

\*

- \* This file was part of the Independent JPEG Group's software:
- \* Copyright (C) 1991-1998, Thomas G. Lane.
- \* Modified 2003-2011 by Guido Vollbeding.
- \* Modifications:
- \* Copyright (C) 2010, 2013, D. R. Commander.
- \* For conditions of distribution and use, see the accompanying README file.
- \*
- \* This file contains a command-line user interface for the JPEG compressor.
- \* It should work on any system with Unix- or MS-DOS-style command lines.
- \*



- \* Two different command line styles are permitted, depending on the
- \* compile-time switch TWO\_FILE\_COMMANDLINE:
- \* cjpeg [options] inputfile outputfile
- \* cjpeg [options] [inputfile]
- \* In the second style, output is always to standard output, which you'd
- \* normally redirect to a file or pipe to some other program. Input is
- \* either from a named file or from standard input (typically redirected).
- \* The second style is convenient on Unix but is unhelpful on systems that
- \* don't support pipes. Also, you MUST use the first style if your system
- \* doesn't do binary I/O to stdin/stdout.
- \* To simplify script writing, the "-outfile" switch is provided. The syntax
- \* cjpeg [options] -outfile outputfile inputfile
- \* works regardless of which command line style is used.
- \*/

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cjpeg.c

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

purpose, subject to the conditions under LEGAL ISSUES, below.  
 fitness for a particular purpose. This software is provided "AS IS", and you,  
 All Rights Reserved except as specified below.  
 Permission is hereby granted to use, copy, modify, and distribute this  
 It is copyright by the Free Software Foundation but is freely distributable.  
 reasons for developing this free software was to help force convergence on

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README

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

```
/*
 * jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 */
```

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd.h

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

```
/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2011 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc.c
```

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

```
/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * Speech, and Signal Processing 1989 (ICASSP '89), pp. 988-991.
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
```

\* scaled fixed-point arithmetic, with a minimal number of shifts.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctint.c

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

/\*

\* jutils.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains tables and miscellaneous utility routines needed

\* for both compression and decompression.

\* Note we prefix all global names with "j" to minimize conflicts with

\* a surrounding application.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jutils.c

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

/\*

\* jdhuft.h

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2010-2011, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains declarations for Huffman entropy decoding routines

\* that are shared between the sequential decoder (jdhuft.c) and the

\* progressive decoder (jdpuff.c). No other modules need to see these.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuft.h

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

/\*

\* jdcolor.c

\*

\* This file was part of the Independent JPEG Group's software:  
\* Copyright (C) 1991-1997, Thomas G. Lane.  
\* Modified 2011 by Guido Vollbeding.  
\* Modifications:  
\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB  
\* Copyright (C) 2009, 2011-2012, D. R. Commander.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains output colorspace conversion routines.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolor.c  
No license file was found, but licenses were detected in source scan.

## IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.  
This file was part of the Independent JPEG Group's software.  
It was modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo.  
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software; that is, the functions of the various modules in the system and the interfaces between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:

- A "component" means a color channel, e.g., Red or Luminance.
- A "sample" is a single component value (i.e., one number in the image data).
- A "coefficient" is a frequency coefficient (a DCT transform output number).
- A "block" is an 8x8 group of samples or coefficients.
- An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used

rigorously throughout the code, but it is used in places where confusion would otherwise result.)

\*\*\* System features \*\*\*

The IJG distribution contains two parts:

- \* A subroutine library for JPEG compression and decompression.
- \* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the

compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

### \*\*\* Portability issues \*\*\*

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.
2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.
3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

### \*\*\* System overview \*\*\*

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:

- \* Color space conversion (e.g., RGB to YCbCr).
- \* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:

- \* MCU assembly, DCT, quantization.
- \* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to `fwrite()`, but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:

- \* Entropy decoding (sequential or progressive, Huffman or arithmetic).
- \* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:

- \* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
- \* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
- \* Optional color quantization (e.g., reduction to 256 colors).
- \* Optional color precision reduction (e.g., 24-bit to 15-bit color).  
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module.

The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to

have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

\*\*\* Poor man's object-oriented programming \*\*\*

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see `jdatadst.c`, which implements the external interface specified by struct `jpeg_destination_mgr`, but adds extra fields.)



(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

\*\*\* Overall control structure \*\*\*

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

1A. Startup initialization at the beginning of image processing.

The individual processing modules to be used in this run are selected and given initialization calls.

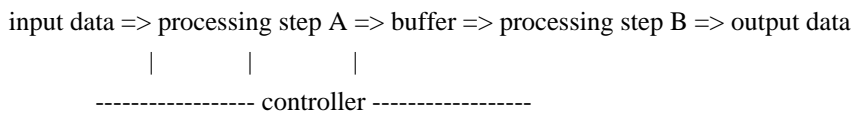
1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than

one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:



The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

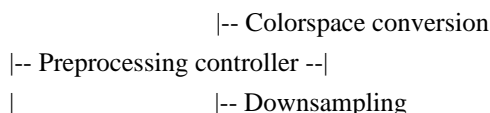
The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

- \* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
- \* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

\*\*\* Compression object structure \*\*\*

Here is a sketch of the logical structure of the JPEG compression library:



```

Main controller --|
 |-- Forward DCT, quantize
|-- Coefficient controller --|
 |-- Entropy encoding

```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

- \* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.
- \* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.
- \* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.
- \* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as  $V_{max}$  pixel rows of each component before downsampling, and  $V_k$  sample rows afterwards (remember  $V_k$  differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).
- \* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.
- \* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now

emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

\* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

\* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

\* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

\* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

\* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

\* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

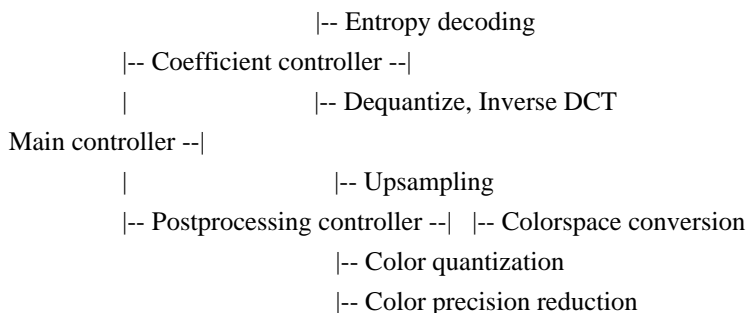
\* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

\*\*\* Decompression object structure \*\*\*

Here is a sketch of the logical structure of the JPEG decompression library:



As before, this diagram also represents typical control flow. The objects shown are:

\* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

\* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

\* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

\* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

\* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this

controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

- \* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.
- \* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.
- \* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.
- \* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

- \* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: `jdinput.c` controls only input-side processing, while `jdmaster.c` handles overall initialization and output-side control.
- \* Marker reading: decodes JPEG markers (except for RSTn).
- \* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

\* Memory manager: same as for compression library.

\* Error handler: same as for compression library.

\* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

\*\*\* Decompression input and output separation \*\*\*

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.
2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls `jpeg_consume_input()`; otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See `libjpeg.txt` for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. `jpeg_consume_input()` is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the `cinfo` data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

\*\*\* Data formats \*\*\*

Arrays of pixel sample values use the following data structure:

```
typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be  $\geq 0$ . This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

- \* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
- \* Indexing doesn't require multiplication; this is a performance win on many machines.
- \* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
- \* The rows forming a component array may be allocated at different times



without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)\*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```
typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems.

(This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKS, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

\*\*\* Suspendable processing \*\*\*

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the

permanent state is updated. (This copying is not very expensive, and may even lead to \*improved\* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does \*not\* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling `jpeg_finish_compress()` will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

\*\*\* Memory manager services \*\*\*

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or

decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

- \* JPOOL\_PERMANENT lasts until master record is destroyed
- \* JPOOL\_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL\_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
  - \* On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
  - \* Pool allocation heuristics may differ for large and small objects.Note that individual "large" objects cannot exceed the size allowed by type size\_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'etre is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their `jinit_xxx` routines.
  2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
  3. `realize_virt_arrays` will be called at the completion of initial setup.
- The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.

Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the `realize_virt_arrays` computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing `realize_virt_arrays` to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in `jdcoefct.c` for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

\*\*\* Memory manager internal structure \*\*\*

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg\_mem\_init, jpeg\_mem\_term system-dependent initialization/shutdown

jpeg\_get\_small, jpeg\_free\_small interface to malloc and free library routines  
(or their equivalents)

jpeg\_get\_large, jpeg\_free\_large interface to FAR malloc/free in MSDOS machines;  
else usually the same as  
jpeg\_get\_small/jpeg\_free\_small

jpeg\_mem\_available estimate available memory

jpeg\_open\_backing\_store create a backing-store object

read\_backing\_store, manipulate a backing-store object  
write\_backing\_store,  
close\_backing\_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg\_open\_backing\_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self\_destruct (typically via jpeg\_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

\*\*\* Implications of DNL marker \*\*\*

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:

1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan.

This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:

1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/structure.txt

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

/\*

\* jcpam.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1998, Thomas G. Lane.

\* Modified 2003-2008 by Guido Vollbeding.

\* Modifications:

\* Copyright (C) 2009-2011, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains optional default-setting code for the JPEG compressor.

\* Applications do not have to use this file, but those that don't use it

\* must know a lot more about the innards of the JPEG code.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcpam.c

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

/\*

\* jquant1.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2009, D. R. Commander

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains 1-pass color quantization (color mapping) routines.

\* These routines provide mapping to a fixed color map using equally spaced

\* color values. Optional Floyd-Steinberg or ordered dithering is available.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant1.c



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

```
/*
 * wrjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that inserts
 * user-supplied text as a COM (comment) marker in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrjpgcom.c
```

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

```
/*
 * jcinit.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcinit.c
```

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

```
/*
 * cdjpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
```

\*  
\* This file contains common support routines used by the IJG application  
\* programs (cjpeg, djpeg, jpegtran).  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jfdctflt.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a floating-point implementation of the  
\* forward DCT (Discrete Cosine Transform).

\*

\* This implementation should be more accurate than either of the integer  
\* DCT implementations. However, it may not give the same results on all  
\* machines because of differences in roundoff behavior. Speed will depend  
\* on the hardware's floating point capacity.

\*

\* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT  
\* on each column. Direct algorithms are also available, but they are  
\* much more complex and seem not to be any faster when reduced to code.

\*

\* This implementation is based on Arai, Agui, and Nakajima's algorithm for  
\* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in  
\* Japanese, but the algorithm is described in the Pennebaker & Mitchell  
\* JPEG textbook (see REFERENCES section in file README). The following code  
\* is based directly on figure 4-8 in P&M.

\* While an 8-point DCT cannot be done in less than 11 multiplies, it is  
\* possible to arrange the computation so that many of the multiplies are  
\* simple scalings of the final outputs. These multiplies can then be  
\* folded into the multiplications or divisions by the JPEG quantization  
\* table entries. The AA&N method leaves only 5 multiplies and 29 adds  
\* to be done in the DCT itself.

\* The primary disadvantage of this method is that with a fixed-point  
\* implementation, accuracy is lost due to imprecise representation of the  
\* scaled quantization values. However, that problem does not arise if  
\* we use floating point arithmetic.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-

archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctflt.c

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

/\*

\* jdmaster.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* Modified 2002-2009 by Guido Vollbeding.

\* Modifications:

\* Copyright (C) 2009-2011, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains master control logic for the JPEG decompressor.

\* These routines are concerned with selecting the modules to be executed

\* and with determining the number of passes and the work to be done in each

\* pass.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmaster.c

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

/\*

\* jquant2.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2009, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains 2-pass color quantization (color mapping) routines.

\* These routines provide selection of a custom color map for an image,

\* followed by mapping of the image to that color map, with optional

\* Floyd-Steinberg dithering.

\* It is also possible to use just the second pass to map to an arbitrary

\* externally-given color map.

\*

\* Note: ordered dithering is not supported, since there isn't any fast

\* way to compute intercolor distances; it's unclear that ordered dither's

\* fundamental assumptions even hold with an irregularly spaced color map.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jquant2.c

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

```
/*
 * jdhuft.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdhuft.c
```

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```
{\rtf1\ansi\ansicpg1252\cocoartf1038\cocoasubrtf350
{\fonttbl{\f0\fswiss\fcharset0 Helvetica;}
{\colortbl;\red255\green255\blue255;}
{*\listtable{\list\listtemplateid1\listhybrid{\listlevel\levelnfc23\levelnfc23\leveljcn0\leveljcn0\levelfollow0\levelsta
rtat1\levelspace360\levelindent0{*\levelmarker {\disc}}{\leveltext\leveltemplateid1\01\uc0\u8226
};{\levelnumbers;}\fi-360\li720\lin720}{\listname ;}\listid1}}
{*\listoverrideable{\listoverride\listid1\listoverridecount0\ls1}}
\margl1440\margr1440\vieww9820\viewh8480\viewkind0
\defstab720
\pard\pardefstab720
```

```
\f0\fs24 \cf0 Redistribution and use in source and binary forms, with or without modification, are permitted provided
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```

```
\
```

```
\pard\tx220\tx720\pardefstab720\li720\fi-720
```

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```

```
\pard\pardefstab720\qc
```

```
\cf0 \
```

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}

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```
;
;jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
; This software is provided 'as-is', without any express or implied
; warranty. In no event will the authors be held liable for any damages
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; Permission is granted to anyone to use this software for any purpose,
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; 1. The origin of this software must not be misrepresented; you must not
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; appreciated but is not required.
; 2. Altered source versions must be plainly marked as such, and must not be
; misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]
```

```

; =====
; System-dependent configurations

%ifdef WIN32 ; ----(nasm -fwin32 -DWIN32 ...)------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

%elifdef WIN64 ; ----(nasm -fwin64 -DWIN64 ...)------
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name ; foo() -> foo

%elifdef OBJ32 ; ----(nasm -fobj -DOBJ32 ...)------
; * Borland C++ (Win32)

; -- segment definition --
;
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elifdef ELF ; ----(nasm -felf[64] -DELFB ...)------
; * Linux
; * *BSD family Unix using elf format
; * Unix System V, including Solaris x86, UnixWare and SCO Unix

; mark stack as non-executable
section .note.GNU-stack noalloc noexec nowrite progbits

```

```

; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text progbits alloc exec nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE_ ; ELF supports PIC
%define EXTN(name) name ; foo() -> foo

%elifdef AOUT ; ----(nasm -faoutb/aout -DAOUT ...)----
; * Older Linux using a.out format (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format (nasm -f aoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL __GLOBAL_OFFSET_TABLE_ ; BSD-style a.out supports PIC

%elifdef MACHO ; ----(nasm -fmacho -DMACHO ...)-----
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text ;align=16 ; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL __MACHO_PIC_ ; Mach-O style code-relative addressing

%else ; ----(Other case)-----

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

```

```

%endif ; -----

; =====

; -----
; Common types
;
#ifdef __x86_64__
#define POINTER qword ; general pointer type
#define SIZEOF_POINTER SIZEOF_QWORD ; sizeof(POINTER)
#define POINTER_BIT QWORD_BIT ; sizeof(POINTER)*BYTE_BIT
#else
#define POINTER dword ; general pointer type
#define SIZEOF_POINTER SIZEOF_DWORD ; sizeof(POINTER)
#define POINTER_BIT DWORD_BIT ; sizeof(POINTER)*BYTE_BIT
#endif

#define INT dword ; signed integer type
#define SIZEOF_INT SIZEOF_DWORD ; sizeof(INT)
#define INT_BIT DWORD_BIT ; sizeof(INT)*BYTE_BIT

#define FP32 dword ; IEEE754 single
#define SIZEOF_FP32 SIZEOF_DWORD ; sizeof(FP32)
#define FP32_BIT DWORD_BIT ; sizeof(FP32)*BYTE_BIT

#define MMWORD qword ; int64 (MMX register)
#define SIZEOF_MMWORD SIZEOF_QWORD ; sizeof(MMWORD)
#define MMWORD_BIT QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
#define XMMWORD ; int128 (SSE register)
#define SIZEOF_XMMWORD SIZEOF_OWORD ; sizeof(XMMWORD)
#define XMMWORD_BIT OWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
#define XMM_DWORD
#define XMM_MMWORD

#define SIZEOF_BYTE 1 ; sizeof(BYTE)
#define SIZEOF_WORD 2 ; sizeof(WORD)
#define SIZEOF_DWORD 4 ; sizeof(DWORD)
#define SIZEOF_QWORD 8 ; sizeof(QWORD)
#define SIZEOF_OWORD 16 ; sizeof(OWORD)

#define BYTE_BIT 8 ; CHAR_BIT in C
#define WORD_BIT 16 ; sizeof(WORD)*BYTE_BIT

```



```

#define DWORD_BIT 32 ; sizeof(DWORD)*BYTE_BIT
#define QWORD_BIT 64 ; sizeof(QWORD)*BYTE_BIT
#define OWORD_BIT 128 ; sizeof(OWORD)*BYTE_BIT

; -----
; External Symbol Name
;
%ifndef EXTN
#define EXTN(name) _ %+ name ; foo() -> _foo
%endif

; -----
; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC ; -----

%ifidn GOT_SYMBOL,_MACHO_PIC_ ; -----

; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTION SEG_CONST
const_base:

#define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT 1
; NOTE: this macro destroys ecx register.
call %%geteip
add ecx, byte (%%ref - $)
jmp short %%adjust
%%geteip:
mov ecx, POINTER [esp]
ret
%%adjust:
push ebp
xor ebp,ebp ; ebp = 0
%ifidni %1,ebx ; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
db 0x8D,0x9C ; 8D,9C
jmp near const_base ; E9,(const_base-%%ref)
%%ref:
%else ; (%1 != ebx)

```

```

; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
db 0x8D,0x8C ; 8D,8C
jmp near const_base ; E9,(const_base-%%ref)
%%ref: mov %1, ecx
%endif ; (%1 == ebx)
pop ebp
%endmacro

```

```

%else ; GOT_SYMBOL != _MACHO_PIC_ -----

```

```

%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

```

```

%imacro get_GOT 1
extern GOT_SYMBOL
call %%geteip
add %1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmp short %%done
%%geteip:
mov %1, POINTER [esp]
ret
%%done:
%endmacro

```

```

%endif ; GOT_SYMBOL == _MACHO_PIC_ -----

```

```

%imacro pushpic 1.nolist

```

```

push %1
%endmacro

```

```

%imacro poppic 1.nolist

```

```

pop %1
%endmacro

```

```

%imacro movpic 2.nolist

```

```

mov %1,%2
%endmacro

```

```

%else ; !PIC -----

```

```

%define GOTOFF(got,sym) (sym)

```

```

%imacro get_GOT 1.nolist

```

```

%endmacro

```

```

%imacro pushpic 1.nolist

```

```

%endmacro

```

```

%imacro poppic 1.nolist

```

```

%endmacro

```

```

%imacro movpic 2.nolist

```

```

%endmacro

```

```

%endif ; PIC -----

;-----
; Align the next instruction on {2,4,8,16,..}-byte boundary.
; ".balign n,,m" in GNU as
;
%define MSKLE(x,y) (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n) (($-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%%bs: times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) \
 db 0x90 ; nop
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 \
 db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \
 db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \
 db 0x8D,0xAD,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \
 db 0x8D,0x6C,0x25,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \
 db 0x8D,0x6D,0x00 ; lea ebp,[ebp+0x00]
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \
 db 0x8B,0xED ; mov ebp,ebp
times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 \
 db 0x90 ; nop
%endmacro

; Align the next data on {2,4,8,16,..}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0 ; filling zeros
%endmacro

%ifdef __x86_64__

%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9

```

```
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro
```

```
%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro
```

```
%else
```

```
%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro
```

```
%imacro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro
```

%endif

%endif

;-----

; Defines picked up from the C headers

;

%include "jsimdcfg.inc"

;-----

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimdext.inc

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

/\*

\* jchuff.h

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains declarations for Huffman entropy encoding routines

\* that are shared between the sequential encoder (jchuff.c) and the

\* progressive encoder (jcphuff.c). No other modules need to see these.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jchuff.h

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

/\*

\* jdapimin.c

\*

\* Copyright (C) 1994-1998, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains application interface code for the decompression half

\* of the JPEG library. These are the "minimum" API routines that may be

\* needed in either the normal full-decompression case or the

\* transcoding-only case.

\*

\* Most of the routines intended to be called directly by an application

\* are in this file or in jdapistd.c. But also see jcomapi.c for routines  
\* shared by compression and decompression, and jdtrans.c for the transcoding  
\* case.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdapimin.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jpegtran.c

\*

\* This file was part of the Independent JPEG Group's software:  
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\* Modifications:  
\* Copyright (C) 2010, D. R. Commander.  
\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a command-line user interface for JPEG transcoding.  
\* It is very similar to cjpeg.c, and partly to djpeg.c, but provides  
\* lossless transcoding between different JPEG file formats. It also  
\* provides some lossless and sort-of-lossless transformations of JPEG data.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegtran.c  
No license file was found, but licenses were detected in source scan.

// Natural Docs is licensed under the GPL.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/doc/html/search/search.js  
No license file was found, but licenses were detected in source scan.

/\*

\* jdatadst-tj.c

\*

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\* Modified 2009-2012 by Guido Vollbeding.  
\* Modifications:  
\* Copyright (C) 2011, D. R. Commander.  
\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains compression data destination routines for the case of  
\* emitting JPEG data to memory or to a file (or any stdio stream).  
\* While these routines are sufficient for most applications,  
\* some will want to use a different destination manager.  
\* IMPORTANT: we assume that fwrite() will correctly transcribe an array of  
\* JOCTETs into 8-bit-wide elements on external storage. If char is wider  
\* than 8 bits on your machine, you may need to do some tweaking.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst-tj.c  
No license file was found, but licenses were detected in source scan.

/\*

\* rdrle.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to read input images in Utah RLE format.

\* The Utah Raster Toolkit library is required (version 3.1 or later).

\*

\* These routines may need modification for non-Unix environments or

\* specialized applications. As they stand, they assume input from

\* an ordinary stdio stream. They further assume that reading begins

\* at the start of the file; start\_input may need work if the

\* user interface has already read some data (e.g., to determine that

\* the file is indeed RLE format).

\*

\* Based on code contributed by Mike Lijewski,

\* with updates from Robert Hutchinson.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdrle.c  
No license file was found, but licenses were detected in source scan.

/\*

\* rdbmp.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* Modified 2009-2010 by Guido Vollbeding.

\* Modifications:

\* Modified 2011 by Siarhei Siamashka.

\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains routines to read input images in Microsoft "BMP"  
\* format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).  
\* Currently, only 8-bit and 24-bit images are supported, not 1-bit or  
\* 4-bit (feeding such low-depth images into JPEG would be silly anyway).  
\* Also, we don't support RLE-compressed files.  
\*  
\* These routines may need modification for non-Unix environments or  
\* specialized applications. As they stand, they assume input from  
\* an ordinary stdio stream. They further assume that reading begins  
\* at the start of the file; start\_input may need work if the  
\* user interface has already read some data (e.g., to determine that  
\* the file is indeed BMP format).  
\*  
\* This code contributed by James Arthur Boucher.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdbmp.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jccolor.c

\*

\* This file was part of the Independent JPEG Group's software:  
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\* Modifications:  
\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB  
\* Copyright (C) 2009-2012, D. R. Commander.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains input colorspace conversion routines.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolor.c  
No license file was found, but licenses were detected in source scan.

/\*

\* rdjpgcom.c

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.  
\* Modified 2009 by Bill Allombert, Guido Vollbeding.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.



```
*
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdjpgcom.c
No license file was found, but licenses were detected in source scan.
```

License: IJG

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo.spec
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* jconfig.txt
```

```
*
```

```
* Copyright (C) 1991-1994, Thomas G. Lane.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
*
```

```
* This file documents the configuration options that are required to
```

```
* customize the JPEG software for a particular system.
```

```
*
```

```
* The actual configuration options for a particular installation are stored
```

```
* in jconfig.h. On many machines, jconfig.h can be generated automatically
```

```
* or copied from one of the "canned" jconfig files that we supply. But if
```

```
* you need to generate a jconfig.h file by hand, this file tells you how.
```

```
*
```

```
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
```

```
* EDIT A COPY NAMED JCONFIG.H.
```

```
*/
```

```
/*
```

```
* These symbols indicate the properties of your machine or compiler.
```

```
* #define the symbol if yes, #undef it if no.
```

```
*/
```

```
/* Does your compiler support function prototypes?
```

```
* (If not, you also need to use ansi2knr, see install.txt)
```

```
*/
```

```
#define HAVE_PROTOTYPES
```

```

/* Does your compiler support the declaration "unsigned char" ?
* How about "unsigned short" ?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
/* #define void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
/* #define const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)
*/

```

```

#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
 * than the first 15 characters.
 */
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
 * unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
 * and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
 * define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
 * actually get "missing structure definition" warnings or errors while
 * compiling the JPEG code.
 */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
 */
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcnldr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
 */

#ifdef JPEG_INTERNALS

/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
 */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).

```

```

* Other applications can ignore these.
*/

#ifdef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.
*/
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
* jpeglib.h
*

```

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\*  
\* This file defines the application interface for the JPEG library.  
\* Most applications using the library need only include this file,  
\* and perhaps jerror.h if they want to know the exact error codes.  
\*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpeglib.h  
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/\*

\* jversion.h

\*

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\*  
\* This file contains software version identification.  
\*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jversion.h  
No license file was found, but licenses were detected in source scan.

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# - Redistributions of source code must retain the above copyright notice,  
# this list of conditions and the following disclaimer.  
# - Redistributions in binary form must reproduce the above copyright notice,  
# this list of conditions and the following disclaimer in the documentation  
# - Neither the name of the libjpeg-turbo Project nor the names of its  
# software without specific prior written permission.

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/uninstall.in

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## IJG JPEG LIBRARY: CODING RULES

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Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see `jpeg/doc/cstyle.ms.tbl.Z`, or `cstyle.txt.Z` for those without `nroff/tbl`).

Block comments should be laid out thusly:

```
/*
 * Block comments in this style.
*/
```

We indent statements in K&R style, e.g.,

```
if (test) {
 then-part;
} else {
 else-part;
}
```

with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., `multi_word_name` (not `multiWordName`). Preprocessor symbols and enum constants are similar but upper case (`MULTI_WORD_NAME`). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). `ansi2knr` is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```
LOCAL(int *)
```

```
function_name (int a, char *b)
{
 code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist) type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist) type (*methodname) ()
#endif
```

which is used like this:

```
struct function_pointers {
 JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
 JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size\_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size\_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.
2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this

a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg\_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED\_SHORT\_EXTERNAL\_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/coderules.txt
No license file was found, but licenses were detected in source scan.
```

```
/*
* jdarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy decoding routines for JPEG
* (implementing the ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81).
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdarith.c
```



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

```
/*
 * jcdctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2011 D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient
 * quantization.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcdctmgr.c
```

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

```
/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to output to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jerror.c
```

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

```
/*
 * Copyright (C)2011 D. R. Commander. All Rights Reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions are met:
 *
 * - Redistributions of source code must retain the above copyright notice,
 * this list of conditions and the following disclaimer.
 * - Redistributions in binary form must reproduce the above copyright notice,
 * this list of conditions and the following disclaimer in the documentation
 * and/or other materials provided with the distribution.
 * - Neither the name of the libjpeg-turbo Project nor the names of its
 * contributors may be used to endorse or promote products derived from this
 * software without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS",
 * AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjutil.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjutil.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java.in
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
```

```
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jctest.c
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.h
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/bmp.c
No license file was found, but licenses were detected in source scan.
```

From c51b66ebcace2adec0cfbe42d25cb418ed0c02a2 Mon Sep 17 00:00:00 2001

From: DRC <information@libjpeg-turbo.org>

Date: Fri, 20 Jul 2018 17:21:36 -0500

Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's JERR\_PPM\_OUTOFRANGE enum value in lieu of our project-specific JERR\_PPM\_TOOLARGE enum value.

Fixes #258

---

cderror.h | 5 +++--

rdbmp.c | 7 ++++++-

rdppm.c | 4 +++-

3 files changed, 11 insertions(+), 5 deletions(-)

diff --git a/cderror.h b/cderror.h

index d69b501..46b0f49 100644

--- a/cderror.h

+++ b/cderror.h

@@ -2,7 +2,7 @@

\* cderror.h

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.

- \* Modified 2009 by Guido Vollbeding.

+ \* Modified 2009-2017 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

@@ -48,6 +48,7 @@ JMESSAGE(JERR\_BMP\_COLORSPACE, "BMP output must be grayscale or RGB")

JMESSAGE(JERR\_BMP\_COMPRESSED, "Sorry, compressed BMPs not yet supported")

JMESSAGE(JERR\_BMP\_EMPTY, "Empty BMP image")

JMESSAGE(JERR\_BMP\_NOT, "Not a BMP file - does not start with BM")

+JMESSAGE(JERR\_BMP\_OUTOFRANGE, "Numeric value out of range in BMP file")

JMESSAGE(JTRC\_BMP, "%ux%u 24-bit BMP image")

```

JMESSAGE(JTRC_BMP_MAPPED, "%ux%u 8-bit colormapped BMP image")
JMESSAGE(JTRC_BMP_OS2, "%ux%u 24-bit OS2 BMP image")
@@ -74,8 +75,8 @@ JMESSAGE(JWRN_GIF_NOMOREDATA, "Ran out of GIF bits")
#ifdef PPM_SUPPORTED
JMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
JMESSAGE(JERR_PPM_NONNUMERIC, "Nonnumeric data in PPM file")
-JMESSAGE(JERR_PPM_TOOLARGE, "Integer value too large in PPM file")
JMESSAGE(JERR_PPM_NOT, "Not a PPM/PGM file")
+JMESSAGE(JERR_PPM_OUTOFRANGE, "Numeric value out of range in PPM file")
JMESSAGE(JTRC_PGM, "%ux%u PGM image")
JMESSAGE(JTRC_PGM_TEXT, "%ux%u text PGM image")
JMESSAGE(JTRC_PPM, "%ux%u PPM image")
diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 @@
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
- * Modified 2009-2010 by Guido Vollbeding.
+ * Modified 2009-2017 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
@@ -64,6 +64,7 @@ typedef struct _bmp_source_struct {
 JDIMENSION row_width; /* Physical width of scanlines in file */

 int bits_per_pixel; /* remembers 8- or 24-bit format */
+ int cmap_length; /* colormap length */
} bmp_source_struct;

@@ -124,6 +125,7 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
{
 bmp_source_ptr source = (bmp_source_ptr) sinfo;
 register JSAMPARRAY colormap = source->colormap;
+ int cmaplen = source->cmap_length;
 JSAMPARRAY image_ptr;
 register int t;
 register JSAMPROW inptr, outptr;
@@ -140,6 +142,8 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
 outptr = source->pub.buffer[0];
 for (col = cinfo->image_width; col > 0; col--) {
 t = GETJSAMPLE(*inptr++);
+ if (t >= cmaplen)
+ ERREXIT(cinfo, JERR_BMP_OUTOFRANGE);
 outptr++ = colormap[0][t]; / can omit GETJSAMPLE() safely */

```

```

 *outptr++ = colormap[1][t];
 *outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@ start_input_bmp (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
 source->colormap = (*cinfo->mem->alloc_sarray)
 ((j_common_ptr) cinfo, JPOOL_IMAGE,
 (JDIMENSION) biClrUsed, (JDIMENSION) 3);
+ source->cmap_length = (int)biClrUsed;
 /* and read it from the file */
 read_colormap(source, (int) biClrUsed, mapentrysize);
 /* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
 JSAMPROW pixrow; /* FAR pointer to same */
 size_t buffer_width; /* width of I/O buffer */
 JSAMPLE *rescale; /* => maxval-remapping array, or NULL */
- int maxval;
+ unsigned int maxval;
} ppm_source_struct;

typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)
}

if (val > maxval)
- ERREXIT(cinfo, JERR_PPM_TOOLARGE);
+ ERREXIT(cinfo, JERR_PPM_OUTOFRANGE);

return val;
}
--

```

## 2.17.2

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo12-CVE-2018-14498.patch
```

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

```

/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *

```

```

* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
* Digital Image Warping, George Wolberg, 1990.
* Pub. by IEEE Computer Society Press, Los Alamitos, CA. ISBN 0-8186-8944-7.
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

```

Package: {\_\_PKGNAME}

Version: {\_\_VERSION}-{\_\_BUILD}

Section: misc

Priority: optional

Architecture: {\_\_ARCH}

Essential: no

Maintainer: The libjpeg-turbo Project [<http://www.libjpeg-turbo.org>]

Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs  
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/deb-
control.tpl
```

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

```
/*
```

```
* jsimd_x86_64.c
```

```
*
```

```
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
```

```
* Copyright 2009-2011 D. R. Commander
```

```
*
```

```
* Based on the x86 SIMD extension for IJG JPEG library,
```

```
* Copyright (C) 1999-2006, MIYASAKA Masaru.
```

```
* For conditions of distribution and use, see copyright notice in jsimdext.inc
```

```
*
```

```
* This file contains the interface between the "normal" portions
```

```
* of the library and the SIMD implementations when running on a
```

```
* x86_64 architecture.
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/simd/jsimd_x86_64.c
```

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

```
;
; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK (MAXJSAMPLE * 4 + 3) ; 2 bits wider than legal samples

%define ROW(n,b,s) ((b)+(n)*(s))
%define COL(n,b,s) ((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s) ((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; -----
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdct.inc
```

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

```

```

```
** Background
```

```

```

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can



still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

```

** License

```

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the libjpeg-turbo Project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS", AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE

POSSIBILITY OF SUCH DAMAGE.

\*\*\*\*\*  
\*\* Using libjpeg-turbo  
\*\*\*\*\*

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

=====  
Installation Directory  
=====

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un\*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

=====  
Replacing libjpeg at Run Time  
=====

Un\*x  
----

If a Un\*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD\_LIBRARY\_PATH. For instance:

[Using libjpeg]

```
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s
```

[Using libjpeg-turbo]

```
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
sys 0m0.010s
```

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib\* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows

-----

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg\_stdio\_dest() and jpeg\_stdio\_src().

Mac

---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.\*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install\_name\_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

=====  
Using libjpeg-turbo in Your Own Programs  
=====

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un\*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un\*x systems, you would still need to manipulate LD\_LIBRARY\_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass `-R /opt/libjpeg-turbo/{lib}` to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un\*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add `/opt/libjpeg-turbo/lib/libjpeg.a` to the linker command

line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]\include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

=====  
Colorspace Extensions  
=====

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

```
JCS_EXT_RGB /* red/green/blue */
JCS_EXT_RGBX /* red/green/blue/x */
JCS_EXT_BGR /* blue/green/red */
JCS_EXT_BGRX /* blue/green/red/x */
JCS_EXT_XBGR /* x/blue/green/red */
JCS_EXT_XRGB /* x/red/green/blue */
JCS_EXT_RGBA /* red/green/blue/alpha */
JCS_EXT_BGRA /* blue/green/red/alpha */
JCS_EXT_ABGR /* alpha/blue/green/red */
JCS_EXT_ARGB /* alpha/red/green/blue */
```

Setting cinfo.in\_color\_space (compression) or cinfo.out\_color\_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspace during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS\_EXT\_RGBA, JCS\_EXT\_BGRA, JCS\_EXT\_ABGR, or JCS\_EXT\_ARGB. When these colorspace constants

are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```
#ifdef JCS_ALPHA_EXTENSIONS
```

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

```
=====
libjpeg v7 and v8 API/ABI Emulation
=====
```

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of `--with-jpeg7` or `--with-jpeg8` to `configure`, or an argument of `-DWITH_JPEG7=1` or `-DWITH_JPEG8=1` to `cmake`, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:  
-----

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor  
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers

See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance

Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at <http://www.libjpeg-turbo.org/About/SmartScale> and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor

cinfo.scale\_num and cinfo.scale\_denom are silently ignored.

There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale

cinfo.block\_size is silently ignored.

SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a

lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor  
cinfo.do\_fancy\_downsampling is silently ignored.  
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling  
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files  
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?

-----

libjpeg v9 introduced yet another field to the JPEG compression structure (color\_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=====

In-Memory Source/Destination Managers

=====

By default, libjpeg-turbo 1.3 and later includes the jpeg\_mem\_src() and jpeg\_mem\_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg



v6b or v7 API can pass an argument of `--without-mem-srcdst` to configure or an argument of `-DWITH_MEM_SRCDEST=0` to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which `jpeg_mem_src()` and `jpeg_mem_dest()` are only included when emulating the libjpeg v8 API/ABI.

On Un\*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un\*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses `jpeg_mem_src()` or `jpeg_mem_dest()`, that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call `jpeg_mem_src()` or `jpeg_mem_dest()`. Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses `jpeg_mem_src()` or `jpeg_mem_dest()`, then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both `cjpeg` and `djpeg` have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

```

** Mathematical Compatibility

```

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.
- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.
- When using the floating point IDCT, for the reasons stated above and also

because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

\*\*\*\*\*

\*\* Performance Pitfalls

\*\*\*\*\*

=====

Restart Markers

=====

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

=====

Fast Integer Forward DCT at High Quality Levels

=====

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/README-turbo.txt

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

/\*

\* jdtrans.c

\*

\* Copyright (C) 1995-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*  
\* This file contains library routines for transcoding decompression,  
\* that is, reading raw DCT coefficient arrays from an input JPEG file.  
\* The routines in jdapimin.c will also be needed by a transcoder.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdtrans.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* jdphuff.c  
\*  
\* Copyright (C) 1995-1997, Thomas G. Lane.  
\* This file is part of the Independent JPEG Group's software.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains Huffman entropy decoding routines for progressive JPEG.  
\*  
\* Much of the complexity here has to do with supporting input suspension.  
\* If the data source module demands suspension, we want to be able to back  
\* up to the start of the current MCU. To do this, we copy state variables  
\* into local working storage, and update them back to the permanent  
\* storage only upon successful completion of an MCU.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdphuff.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* jcmaster.c  
\*  
\* This file was part of the Independent JPEG Group's software:  
\* Copyright (C) 1991-1997, Thomas G. Lane.  
\* Modified 2003-2010 by Guido Vollbeding.  
\* Modifications:  
\* Copyright (C) 2010, D. R. Commander.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains master control logic for the JPEG compressor.  
\* These routines are concerned with parameter validation, initial setup,  
\* and inter-pass control (determining the number of passes and the work  
\* to be done in each pass).  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmaster.c  
No license file was found, but licenses were detected in source scan.

/\*

\* wrbmp.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to write output images in Microsoft "BMP"

\* format (MS Windows 3.x and OS/2 1.x flavors).

\* Either 8-bit colormapped or 24-bit full-color format can be written.

\* No compression is supported.

\*

\* These routines may need modification for non-Unix environments or

\* specialized applications. As they stand, they assume output to

\* an ordinary stdio stream.

\*

\* This code contributed by James Arthur Boucher.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrbmp.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jcapistd.c

\*

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains application interface code for the compression half

\* of the JPEG library. These are the "standard" API routines that are

\* used in the normal full-compression case. They are not used by a

\* transcoding-only application. Note that if an application links in

\* jpeg\_start\_compress, it will end up linking in the entire compressor.

\* We thus must separate this file from jcapimin.c to avoid linking the

\* whole compression library into a transcoder.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcapistd.c

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

```
/*
 * transupp.h
 *
 * Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for image transformation routines and
 * other utility code used by the jpegtran sample application. These are
 * NOT part of the core JPEG library. But we keep these routines separate
 * from jpegtran.c to ease the task of maintaining jpegtran-like programs
 * that have other user interfaces.
 *
 * NOTE: all the routines declared here have very specific requirements
 * about when they are to be executed during the reading and writing of the
 * source and destination files. See the comments in transupp.c, or see
 * jpegtran.c for an example of correct usage.
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/transupp.h
```

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

```
/*
 * jaricom.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
 * and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
 * (ISO/IEC IS 11544 and CCITT Recommendation ITU-T T.82).
 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jaricom.c
```

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

```
/*
 * jpegcomp.h
```

\*  
\* Copyright (C) 2010, D. R. Commander  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* JPEG compatibility macros  
\* These declarations are considered internal to the JPEG library; most  
\* applications using the library shouldn't need to include this file.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jpegcomp.h  
No license file was found, but licenses were detected in source scan.

/\*  
\* jdatasrc-tj.c  
\*  
\* This file was part of the Independent JPEG Group's software:  
\* Copyright (C) 1994-1996, Thomas G. Lane.  
\* Modified 2009-2011 by Guido Vollbeding.  
\* Modifications:  
\* Copyright (C) 2011, D. R. Commander.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains decompression data source routines for the case of  
\* reading JPEG data from memory or from a file (or any stdio stream).  
\* While these routines are sufficient for most applications,  
\* some will want to use a different source manager.  
\* IMPORTANT: we assume that fread() will correctly transcribe an array of  
\* JOCTETs from 8-bit-wide elements on external storage. If char is wider  
\* than 8 bits on your machine, you may need to do some tweaking.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatasrc-tj.c  
No license file was found, but licenses were detected in source scan.

/\*  
\* jccolext.c  
\*  
\* This file was part of the Independent JPEG Group's software:  
\* Copyright (C) 1991-1996, Thomas G. Lane.  
\* Modifications:  
\* Copyright (C) 2009-2012, D. R. Commander.  
\* For conditions of distribution and use, see the accompanying README file.  
\*  
\* This file contains input colorspace conversion routines.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jccolext.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jdatadst.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* Modified 2009-2012 by Guido Vollbeding.

\* Modifications:

\* Copyright (C) 2013, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains compression data destination routines for the case of

\* emitting JPEG data to memory or to a file (or any stdio stream).

\* While these routines are sufficient for most applications,

\* some will want to use a different destination manager.

\* IMPORTANT: we assume that fwrite() will correctly transcribe an array of

\* JOCTETs into 8-bit-wide elements on external storage. If char is wider

\* than 8 bits on your machine, you may need to do some tweaking.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdatadst.c  
No license file was found, but licenses were detected in source scan.

/\*

\* cderror.h

\*

\* Copyright (C) 1994-1997, Thomas G. Lane.

\* Modified 2009 by Guido Vollbeding.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file defines the error and message codes for the cjpeg/djpeg

\* applications. These strings are not needed as part of the JPEG library

\* proper.

\* Edit this file to add new codes, or to translate the message strings to

\* some other language.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-

archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cderror.h  
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)

=====

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The `tjDecompressToYUV()` function now supports the `TJFLAG_FASTDCT` flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in `/usr/lib/i386-linux-gnu` for the TurboJPEG libraries in `/usr/lib32`. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass `-Djava.library.path=/usr/lib` to java.

[7] `TJBench` has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with `'java -cp turbojpeg.jar TJBench'`.

[8] `cjpeg` can now be used to generate JPEG files with the RGB colorspace (feature ported from `jpeg-8d`.)

[9] The width and height in the `-crop` argument passed to `jpegtran` can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes `jpegtran` to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from `jpeg-8d`.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from `jpeg-8d`.)



[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (`jpeg_mem_src()` and `jpeg_mem_dest()`) are now included by default when building `libjpeg-turbo` with `libjpeg v6b` or `v7` emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible `libjpeg v8` ABI. The "age number" of the `libjpeg-turbo` library on `Un*x` systems has been incremented by 1 to reflect this. You can disable this feature with a `configure/CMake` switch in order to retain strict API/ABI compatibility with the `libjpeg v6b` or `v7` API/ABI (or with previous versions of `libjpeg-turbo`.) See `README-turbo.txt` for more details.

[13] Added ARM `v7s` architecture to `libjpeg.a` and `libturbojpeg.a` in the official `libjpeg-turbo` binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

## 1.2.1

=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the `libjpeg-turbo` colorspace extensions.

[2] When `libjpeg-turbo` was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to `0xFF`. This has been fixed. `TJUnitTest` has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the `libjpeg-turbo` SSE2 SIMD code would not preserve the upper 64 bits of `xmm6` and `xmm7` on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause `libjpeg-turbo` to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The `MASKMOVDQU` instruction, which was used by the `libjpeg-turbo` SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM

platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "'%define' expects a macro identifier".

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

## 1.2.0

=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdcfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See <http://crbug.com/72399> for more information.

[3] Added a compile-time macro (LIBJPEG\_TURBO\_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby Devil failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in Devil. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)

=====

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest".)

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient

version of TJBUFFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS\_EXT\_RGBX, JCS\_EXT\_BGRX, JCS\_EXT\_XBGR, or JCS\_EXT\_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

### 1.1.1

=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building

libjpeg-turbo with older versions of MinGW64, you will now have to add `-fno-leading-underscore` to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in `jpeg_read_coefficients()` whereby it would not initialize `cinfo->image_width` and `cinfo->image_height` if libjpeg v7 or v8 emulation was enabled. This specifically caused the `jpegoptim` program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.

[6] Eliminated excessive I/O overhead that occurred when reading BMP files in `cjpeg`.

[7] Eliminated errors in the output of `cjpeg` on Windows that occurred when the application was invoked using I/O redirection (`cjpeg <inputfile >output.jpg`).

#### 1.1.0

=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is  $\geq 98$  and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported `jpgtest.cxx` to pure C to avoid the need for a C++ compiler.

[4] Fixed visual artifacts in grayscale JPEG compression caused by a typo in the RGB-to-luminance lookup tables.

[5] The Windows distribution packages now include the libjpeg run-time programs (`cjpeg`, etc.)

[6] All packages now include `jpgtest`.

[7] The TurboJPEG dynamic library now uses versioned symbols.

[8] Added two new TurboJPEG API functions, `tjEncodeYUV()` and `tjDecompressToYUV()`, to replace the somewhat hackish `TJ_YUV` flag.

#### 1.0.90 (1.1 beta1)

=====

[1] Added emulation of the `libjpeg v7` and `v8` APIs and ABIs. See `README-turbo.txt` for more details. This feature was sponsored by CamTrace SAS.

[2] Created a new CMake-based build system for the Visual C++ and MinGW builds.

[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] `jpgtest` can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (`/opt/libjpeg-turbo`) is used, then 'make install' now creates `/opt/libjpeg-turbo/lib32` and `/opt/libjpeg-turbo/lib64` sym links to duplicate the behavior of the binary packages.

[6] All symbols in the `libjpeg-turbo` dynamic library are now versioned, even when the library is built with `libjpeg v6b` emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with `configure` or CMake options)

[8] Added a `TJ_YUV` flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of `tjDecompressHeader()` to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

#### 1.0.1

=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause `libjpeg-turbo` to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE\_TYPES\_BROKEN macro should be defined.

1.0.0

=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.

[4] Created a 32-bit supplementary package for amd64 Debian systems, which contains just the 32-bit libjpeg-turbo libraries.

[5] Moved the libraries from \*/lib32 to \*/lib in the i386 Debian package.

[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93

=====

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91

=====

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90

=====

Initial release

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/ChangeLog.txt  
No license file was found, but licenses were detected in source scan.

/\*

\* jsimd\_i386.c

\*

\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

\* Copyright 2009-2011 D. R. Commander

\*

\* Based on the x86 SIMD extension for IJG JPEG library,

\* Copyright (C) 1999-2006, MIYASAKA Masaru.

\* For conditions of distribution and use, see copyright notice in jsimdext.inc

\*

\* This file contains the interface between the "normal" portions

\* of the library and the SIMD implementations when running on a

\* 32-bit x86 architecture.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd\_i386.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jdmainct.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1994-1996, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2010, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the main buffer controller for decompression.

\* The main buffer lies between the JPEG decompressor proper and the

\* post-processor; it holds downsampled data in the JPEG colorspace.

\*

\* Note that this code is bypassed in raw-data mode, since the application

\* supplies the equivalent of the main buffer in that case.

\*/

Found in path(s):



\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdmainct.c  
No license file was found, but licenses were detected in source scan.

```
/*
 * jinclude.h
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file exists to provide a single place to fix any problems with
 * including the wrong system include files. (Common problems are taken
 * care of by the standard jconfig symbols, but on really weird systems
 * you may have to edit this file.)
 *
 * NOTE: this file is NOT intended to be included by applications using the
 * JPEG library. Most applications need only include jpeglib.h.
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jinclude.h  
No license file was found, but licenses were detected in source scan.

```
/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 *
 * *****
 * NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
 * the ability to read GIF files has been removed from the IJG distribution. *
 * Sorry about that. *
 * *****
 *
 * We are required to state that
 * "The Graphics Interchange Format(c) is the Copyright property of
 * CompuServe Incorporated. GIF(sm) is a Service Mark property of
 * CompuServe Incorporated."
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-

archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdgif.c

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

/\*

\* simd/jsimd.h

\*

\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

\* Copyright 2011 D. R. Commander

\*

\* Based on the x86 SIMD extension for IJG JPEG library,

\* Copyright (C) 1999-2006, MIYASAKA Masaru.

\* For conditions of distribution and use, see copyright notice in jsimdext.inc

\*

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimd.h

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

/\*

\* rdswitch.c

\*

\* This file was part of the Independent JPEG Group's software:

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* Modifications:

\* Copyright (C) 2010, D. R. Commander.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to process some of cjpeg's more complicated

\* command-line switches. Switches processed here are:

\* -qtables file Read quantization tables from text file

\* -scans file Read scan script from text file

\* -quality N[,N,...] Set quality ratings

\* -qslots N[,N,...] Set component quantization table selectors

\* -sample HxV[,HxV,...] Set component sampling factors

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/rdswitch.c

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

;

; jcolsamp.inc - private declarations for color conversion & up/downsampling

;

; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

;

```
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]
```

```
;-----
```

```
; pseudo-registers to make ordering of RGB configurable
```

```
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif
```

```
%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
```

```

%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6

```

```
%define xmmH xmm7
```

```
%endif
```

```
;-----
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/simd/jcolsamp.inc
```

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

```
/*
```

```
* wrtarga.c
```

```
*
```

```
* Copyright (C) 1991-1996, Thomas G. Lane.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
*
```

```
* This file contains routines to write output images in Targa format.
```

```
*
```

```
* These routines may need modification for non-Unix environments or
```

```
* specialized applications. As they stand, they assume output to
```

```
* an ordinary stdio stream.
```

```
*
```

```
* Based on code contributed by Lee Daniel Crocker.
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrtarga.c
```

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

```
/*
```

```
* wrgif.c
```

```
*
```

```
* Copyright (C) 1991-1997, Thomas G. Lane.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
*
```

```
* This file contains routines to write output images in GIF format.
```

```
*
```

```

```

```
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
```

```
* this code has been modified to output "uncompressed GIF" files. *
```

```
* There is no trace of the LZW algorithm in this file. *
```

```

```

```
*
```

```
* These routines may need modification for non-Unix environments or
```

```

* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
/*
* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrgif.c
No license file was found, but licenses were detected in source scan.

```

## USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:  
 Copyright (C) 1994-2011, Thomas G. Lane, Guido Vollbeding.  
 Modifications:

Copyright (C) 2010, D. R. Commander.

For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

The file `example.c` provides heavily commented skeleton code for calling the JPEG library. Also see `jpeglib.h` (the include file to be used by application programs) for full details about data structures and function parameter lists. The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface presented by IJG version 4 and earlier versions. The old design had several inherent limitations, and it had accumulated a lot of cruft as we added features while trying to minimize application-interface changes. We have

sacrificed backward compatibility in the version 5 rewrite, but we think the improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

## OVERVIEW

=====

### Functions provided by the library

-----

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a

scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions \*not\* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

- \* Hierarchical storage
- \* Lossless JPEG
- \* DNL marker
- \* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage

-----

The rough outline of a JPEG compression operation is:

- Allocate and initialize a JPEG compression object
- Specify the destination for the compressed data (eg, a file)



Set parameters for compression, including image size & colorspace

```
jpeg_start_compress(...);
while (scan lines remain to be written)
 jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object
```

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to `jpeg_write_scanlines()` from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

```
Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
 jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object
```

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to `jpeg_read_scanlines()`.

It is possible to abort an incomplete compression or decompression operation by calling `jpeg_abort()`; or, if you do not need to retain the JPEG object, simply release it by calling `jpeg_destroy()`.

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as `jpeg_destroy()` can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.

## BASIC LIBRARY USAGE

=====

### Data formats

-----

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

**PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.**

A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type `JSAMPLE` --- which is typically "unsigned char", unless you've changed `jmreconf.h`. (You can also change the RGB pixel layout, say to B,G,R order, by modifying `jmreconf.h`. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS\_IN\_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS\_IN\_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

#### Compression details

-----

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg\_compress\_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part

of this that the library cares about is a "struct jpeg\_error\_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg\_error\_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg\_create\_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg\_create\_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

## 2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
 fprintf(stderr, "can't open %s\n", filename);
 exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use

setmode() or another routine to put the stdio stream in binary mode. See `cjpeg.c` and `djpeg.c` for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling `jpeg_start_compress()` and `jpeg_finish_compress()`.

### 3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

`image_width` Width of image, in pixels  
`image_height` Height of image, in pixels  
`input_components` Number of color channels (samples per pixel)  
`in_color_space` Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The `in_color_space` field must be assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or `JCS_GRAYSCALE`.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling `jpeg_set_defaults()`; then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set `in_color_space` correctly before calling `jpeg_set_defaults()`, because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call `jpeg_start_compress()`. There's no harm in calling `jpeg_set_defaults()` more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```
cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */
```

4. `jpeg_start_compress(...);`

After you have established the data destination and set all the necessary source image info and other parameters, call `jpeg_start_compress()` to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```
jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called `jpeg_start_compress()`, you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. `while (scan lines remain to be written)`

```
jpeg_write_scanlines(...);
```

Now write all the required image data by calling `jpeg_write_scanlines()` one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application `cjpeg`.

The library maintains a count of the number of scanlines written so far in the `next_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like `"while (cinfo.next_scanline < cinfo.image_height)"`.

Code for this step depends heavily on the way that you store the source data. `example.c` shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```

JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
 row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
 jpeg_write_scanlines(&cinfo, row_pointer, 1);
}

```

jpeg\_write\_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

- \* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
- \* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next\_scanline.

#### 6. jpeg\_finish\_compress(...);

After all the image data has been written, call jpeg\_finish\_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination.

jpeg\_finish\_compress() also releases working memory associated with the JPEG object.

Typical code:

```
jpeg_finish_compress(&cinfo);
```

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg\_finish\_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg\_finish\_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg\_finish\_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg\_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call `jpeg_set_defaults()` to adjust for the new colorspace; and then you'll need to repeat all of step 3.

#### 7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling `jpeg_destroy_compress()`. This will free all subsidiary memory (regardless of the previous state of the object). Or you can call `jpeg_destroy()`, which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, `jpeg_destroy()` should be passed a `j_common_ptr`.)

If you allocated the `jpeg_compress_struct` structure from `malloc()`, freeing it is your responsibility --- `jpeg_destroy()` won't. Ditto for the error handler structure.

Typical code:

```
jpeg_destroy_compress(&cinfo);
```

#### 8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

\* If you don't need the JPEG object any more, just call `jpeg_destroy_compress()` or `jpeg_destroy()` to release memory. This is legitimate at any point after calling `jpeg_create_compress()` --- in fact, it's safe even if `jpeg_create_compress()` fails.

\* If you want to re-use the JPEG object, call `jpeg_abort_compress()`, or call `jpeg_abort()` which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. `jpeg_abort()` is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call `term_destination()`.



(See "Compressed data handling", below, for more about that.)

`jpeg_destroy()` and `jpeg_abort()` are the only safe calls to make on a JPEG object that has reported an error by calling `error_exit` (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

## Decompression details

-----

Here we revisit the JPEG decompression outline given in the overview.

### 1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct `jpeg_decompress_struct`" and you call `jpeg_create_decompress()`. Error handling is exactly the same.

Typical code:

```
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

### 2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
 fprintf(stderr, "can't open %s\n", filename);
 exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

**WARNING:** it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg\_read\_header() and jpeg\_finish\_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg\_read\_header() to jpeg\_finish\_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg\_read\_header() to obtain image info.

Typical code for this step is just

```
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

- \* A suspending data source is used --- in that case jpeg\_read\_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
- \* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg\_destroy() when you are done with the JPEG object, or call jpeg\_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg\_read\_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you

may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to `jpeg_read_header()`.

If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression.

You must set desired parameter values each time.

#### 5. `jpeg_start_decompress(...)`;

Once the parameter values are satisfactory, call `jpeg_start_decompress()` to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

```
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

```
output_width image width and height, as scaled
output_height
out_color_components # of color components in out_color_space
output_components # of color components returned per pixel
colormap the selected colormap, if any
actual_number_of_colors number of entries in colormap
```

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image.

You will need `output_width * output_components` JSAMPLEs per scanline in your

output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as `djpeg` does), then the manager's protocol requires that you request large buffers \*before\* calling `jpeg_start_decompress()`. This is a little tricky since the `output_XXX` fields are not normally valid then. You can make them valid by calling `jpeg_calc_output_dimensions()` after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)

```
jpeg_read_scanlines(...);
```

Now you can read the decompressed image data by calling `jpeg_read_scanlines()` one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); `jpeg_read_scanlines()` will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application `djpeg`.

The library maintains a count of the number of scanlines returned so far in the `output_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (`cinfo.output_scanline < cinfo.output_height`)". (Note that the test should NOT be against `image_height`, unless you never use scaling. The `image_height` field is the height of the original unscaled image.) The return value always equals the change in the value of `output_scanline`.

If you don't use a suspending data source, it is safe to assume that `jpeg_read_scanlines()` reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that `jpeg_read_scanlines()` fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls `jpeg_read_scanlines()` repeatedly until the whole image has been read.

7. `jpeg_finish_decompress(...)`;

After all the image data has been read, call `jpeg_finish_decompress()` to

complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

```
jpeg_finish_decompress(&cinfo);
```

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call `jpeg_finish_decompress()` before reading the correct total number of scanlines. If you wish to abort decompression, call `jpeg_abort()` as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

#### 8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling `jpeg_destroy_decompress()` or `jpeg_destroy()`. The previous discussion of destroying compression objects applies here too.

Typical code:

```
jpeg_destroy_decompress(&cinfo);
```

#### 9. Aborting.

You can abort a decompression cycle by calling `jpeg_destroy_decompress()` or `jpeg_destroy()` if you don't need the JPEG object any more, or `jpeg_abort_decompress()` or `jpeg_abort()` if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

-----

Applications using the JPEG library should include the header file `jpeglib.h` to obtain declarations of data types and routines. Before including `jpeglib.h`, include system headers that define at least the typedefs `FILE` and `size_t`. On ANSI-conforming systems, including `<stdio.h>` is sufficient; on older Unix systems, you may need `<sys/types.h>` to define `size_t`.

If the application needs to refer to individual JPEG library error codes, also include `jerror.h` to define those symbols.

`jpeglib.h` indirectly includes the files `jconfig.h` and `jmorecfg.h`. If you are installing the JPEG header files in a system directory, you will want to install all four files: `jpeglib.h`, `jerror.h`, `jconfig.h`, `jmorecfg.h`.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("`libjpeg.a`", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build `libjpeg.a` automatically (see `install.txt`).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *\*not\** guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the `jmemdos.c` memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See `cjpeg.c` or `djpeg.c` for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the `stdio` library: only the default source/destination managers and error handler need it. You can use the library in a `stdio`-less environment if you replace those modules and use `jmemnobs.c` (or another memory manager of your own devising). More info about the minimum system library requirements may be found in `jinclue.h`.

## ADVANCED FEATURES

=====

### Compression parameter selection

-----

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding

of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call `jpeg_set_defaults()` first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling `cinfo` fields directly.

The helper routines are:

`jpeg_set_defaults (j_compress_ptr cinfo)`

This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field `in_color_space`, which must already be set in `cinfo`). Many applications will only need to use this routine and perhaps `jpeg_set_quality()`.

`jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)`

Sets the JPEG file's colorspace (field `jpeg_color_space`) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call `jpeg_set_colorspace()` before rather than after.

`jpeg_default_colorspace (j_compress_ptr cinfo)`

Selects an appropriate JPEG colorspace based on `cinfo->in_color_space`, and calls `jpeg_set_colorspace()`. This is actually a subroutine of `jpeg_set_defaults()`. It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

`jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)`

Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the `force_baseline` parameter is `TRUE`, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when `force_baseline` is `FALSE`, but other decoders may not be.

`jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor,  
boolean force_baseline)`

Same as `jpeg_set_quality()` except that the generated tables are the sample tables given in the JPEG spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus `scale_factor = 100` reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. `force_baseline` again constrains the computed table entries to 1..255.

`int jpeg_quality_scaling (int quality)`

Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

`jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)`  
[libjpeg v7+ API/ABI emulation only]

Set default quantization tables with linear `q_scale_factor[]` values (see below).

`jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,  
                  const unsigned int *basic_table,  
                  int scale_factor, boolean force_baseline)`

Allows an arbitrary quantization table to be created. `which_tbl` indicates which table slot to fill. `basic_table` points to an array of 64 unsigned ints given in normal array order. These values are multiplied by `scale_factor/100` and then clamped to the range 1..65535 (or to 1..255 if `force_baseline` is TRUE).

CAUTION: prior to library version 6a, `jpeg_add_quant_table` expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like `"#if JPEG_LIB_VERSION >= 61"` is the right test.

`jpeg_simple_progression (j_compress_ptr cinfo)`

Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (`cinfo` fields) include:

`J_DCT_METHOD` `dct_method`

Selects the algorithm used for the DCT step. Choices are:

`JDCT_ISLOW`: slow but accurate integer algorithm

`JDCT_IFAST`: faster, less accurate integer method



JDCT\_FLOAT: floating-point method

JDCT\_DEFAULT: default method (normally JDCT\_ISLOW)

JDCT\_FASTEST: fastest method (normally JDCT\_IFAST)

The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT\_DEFAULT and JDCT\_FASTEST are macros configurable by each installation.

J\_COLOR\_SPACE jpeg\_color\_space

int num\_components

The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg\_set\_color\_space() if you want to change these.

boolean optimize\_coding

TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart\_interval

int restart\_in\_rows

To emit restart markers in the JPEG file, set one of these nonzero. Set restart\_interval to specify the exact interval in MCU blocks. Set restart\_in\_rows to specify the interval in MCU rows. (If restart\_in\_rows is not 0, then restart\_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice. NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg\_scan\_info \* scan\_info

int num\_scans

By default, scan\_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan\_info points to an array of scan definition records of length num\_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or

progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (`jpeg_simple_progression` creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

`int smoothing_factor`

If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult `jcsample.c` for details of the smoothing algorithm. The default is zero.

`boolean write_JFIF_header`

If TRUE, a JFIF APP0 marker is emitted. `jpeg_set_defaults()` and `jpeg_set_colorspace()` set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

`UINT8 JFIF_major_version`

`UINT8 JFIF_minor_version`

The version number to be written into the JFIF marker.

`jpeg_set_defaults()` initializes the version to 1.01 (major=minor=1).

You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

`UINT8 density_unit`

`UINT16 X_density`

`UINT16 Y_density`

The resolution information to be written into the JFIF marker; not used otherwise. `density_unit` may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

`boolean write_Adobe_marker`

If TRUE, an Adobe APP14 marker is emitted. `jpeg_set_defaults()` and `jpeg_set_colorspace()` set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both `write_JFIF_header` and `write_Adobe_marker`. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

`JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]`

Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; `jpeg_add_quant_table()` is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

`int q_scale_factor[NUM_QUANT_TBLS]`

[libjpeg v7+ API/ABI emulation only]

Linear quantization scaling factors (0-100, default 100)

for use with `jpeg_default_qtables()`.

See `rdswitch.c` and `cjpeg.c` for an example of usage.

Note that the `q_scale_factor[]` values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using `jpeg_quality_scaling()`. Here is an example that corresponds to `cjpeg -quality 90,70`:

```
jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

```
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

JHUFF\_TBL \* `dc_huff_tbl_ptrs`[NUM\_HUFF\_TBLS]

JHUFF\_TBL \* `ac_huff_tbl_ptrs`[NUM\_HUFF\_TBLS]

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by `jpeg_set_defaults()`. If you need to allocate more table structures, `jpeg_alloc_huff_table()` may be used.

Note that optimal Huffman tables can be computed for an image by setting `optimize_coding`, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by `jpeg_start_compress()`. You can also call `jpeg_calc_jpeg_dimensions()` to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION `jpeg_width` Actual dimensions of output image.

JDIMENSION `jpeg_height`

Per-component parameters are stored in the struct `cinfo.comp_info[i]` for component number `i`. Note that components here refer to components of the JPEG color space, \*not\* the source image color space. A suitably large `comp_info[]` array is allocated by `jpeg_set_defaults()`; if you choose not to use that routine, it's up to you to allocate the array.

`int component_id`

The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

`int h_samp_factor`

`int v_samp_factor`

Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

`int quant_tbl_no`

Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

`int dc_tbl_no`

`int ac_tbl_no`

DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

`int component_index`

Must equal the component's index in `comp_info[]`. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

#### Decompression parameter selection

-----

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest)

processing.

The following fields in the JPEG object are set by `jpeg_read_header()` and may be useful to the application in choosing decompression parameters:

JDIMENSION `image_width` Width and height of image  
JDIMENSION `image_height`  
int `num_components` Number of color components  
J\_COLOR\_SPACE `jpeg_color_space` Colorspace of image  
boolean `saw_JFIF_marker` TRUE if a JFIF APP0 marker was seen  
UINT8 `JFIF_major_version` Version information from JFIF marker  
UINT8 `JFIF_minor_version`  
UINT8 `density_unit` Resolution data from JFIF marker  
UINT16 `X_density`  
UINT16 `Y_density`  
boolean `saw_Adobe_marker` TRUE if an Adobe APP14 marker was seen  
UINT8 `Adobe_transform` Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J\_COLOR\_SPACE `out_color_space`  
Output color space. `jpeg_read_header()` sets an appropriate default based on `jpeg_color_space`; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to `JCS_GRAYSCALE` to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend `jdcolor.c` if you want an unusual conversion.

unsigned int `scale_num`, `scale_denom`  
Scale the image by the fraction `scale_num/scale_denom`. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean `quantize_colors`

If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if `quantize_colors` is TRUE.

`int desired_number_of_colors`

Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field).

Default 256. Ignored when the application supplies its own color map.

`boolean two_pass_quantize`

If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

`J_DITHER_MODE dither_mode`

Selects color dithering method. Supported values are:

`JDITHER_NONE` no dithering: fast, very low quality

`JDITHER_ORDERED` ordered dither: moderate speed and quality

`JDITHER_FS` Floyd-Steinberg dither: slow, high quality

Default is `JDITHER_FS`. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when `two_pass_quantize` is TRUE or when you supply an external color map, you'll get F-S dithering.)

When `quantize_colors` is TRUE, the target color map is described by the next two fields. `colormap` is set to NULL by `jpeg_read_header()`. The application can supply a color map by setting `colormap` non-NULL and setting `actual_number_of_colors` to the map size. Otherwise, `jpeg_start_decompress()` selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

`JSAMPARRAY colormap`

The color map, represented as a 2-D pixel array of `out_color_components` rows and `actual_number_of_colors` columns. Ignored if not quantizing.

CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by `jpeg_finish_decompress()`.

Copy the colormap somewhere else first, if you want to save it.

`int actual_number_of_colors`

The number of colors in the color map.

Additional decompression parameters that the application may set include:

`J_DCT_METHOD dct_method`

Selects the algorithm used for the DCT step. Choices are the same

as described above for compression.

boolean do\_fancy\_upsampling

If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.

boolean do\_block\_smoothing

If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.

boolean enable\_1pass\_quant

boolean enable\_external\_quant

boolean enable\_2pass\_quant

These are significant only in buffered-image mode, which is described in its own section below.

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by `jpeg_start_decompress()`. You can also call `jpeg_calc_output_dimensions()` to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *\*before\** `jpeg_start_decompress()`.

JDIMENSION output\_width Actual dimensions of output image.

JDIMENSION output\_height

int out\_color\_components Number of color components in out\_color\_space.

int output\_components Number of color components returned.

int rec\_outbuf\_height Recommended height of scanline buffer.

When quantizing colors, `output_components` is 1, indicating a single color map index per pixel. Otherwise it equals `out_color_components`. The output arrays are required to be `output_width * output_components` JSAMPLEs wide.

`rec_outbuf_height` is the recommended minimum height (in scanlines) of the buffer passed to `jpeg_read_scanlines()`. If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, `rec_outbuf_height` is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4).

If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring `rec_outbuf_height` so as to avoid data copying.

(An output buffer larger than `rec_outbuf_height` lines is OK, but won't provide any material speed improvement over that height.)

## Special color spaces

-----

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB  $\Leftrightarrow$  YCbCr and CMYK  $\Leftrightarrow$  YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field `in_color_space`. This is transformed to the JPEG file's color space given by `jpeg_color_space`. `jpeg_set_defaults()` chooses a reasonable JPEG color space depending on `in_color_space`, but you can override this by calling `jpeg_set_colorspace()`. Of course you must select a supported transformation. `jpegcolor.c` currently supports the following transformations:

RGB => YCbCr

RGB => GRAYSCALE

YCbCr => GRAYSCALE

CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB, YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. `jpeg_set_colorspace()` will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting `in_color_space` and `jpeg_color_space` to `JCS_YCbCr`; use `JCS_UNKNOWN`. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may



well want to change these parameters. See the source code for `jpeg_set_colorspace()`, in `jcparam.c`, for details.

For decompression, the JPEG file's color space is given in `jpeg_color_space`, and this is transformed to the output color space `out_color_space`. `jpeg_read_header`'s setting of `jpeg_color_space` can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override `jpeg_read_header`'s guess by setting `jpeg_color_space`. `jpeg_read_header` also selects a default output color space based on (its guess of) `jpeg_color_space`; set `out_color_space` to override this. Again, you must select a supported transformation. `jdcolor.c` currently supports

YCbCr => RGB

YCbCr => GRAYSCALE

RGB => GRAYSCALE

GRAYSCALE => RGB

YCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, `jquant2.c`, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that `jquant2.c` is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

#### Error handling

-----

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on `stderr`, followed by `exit()`.

You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file `example.c` illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

- \* Fatal errors: the library cannot continue.
- \* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
- \* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (`jerror.c`) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling `jpeg_std_error()` as usual, but then overriding some of the method pointers in the `jpeg_error_mgr` struct, as illustrated by `example.c`.

All of the error handling routines will receive a pointer to the JPEG object (a `j_common_ptr` which points to either a `jpeg_compress_struct` or a `jpeg_decompress_struct`; if you need to tell which, test the `is_decompressor` field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the `jpeg_error_mgr` struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see `example.c` for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client\_data" in each JPEG object, which the application can also use to find related data. The library does not touch `client_data` at all.)

The individual methods that you might wish to override are:

`error_exit (j_common_ptr cinfo)`

Receives control for a fatal error. Information sufficient to generate the error message has been stored in `cinfo->err`; call `output_message` to display it. Control must NOT return to the caller; generally this routine will `exit()` or `longjmp()` somewhere.

Typically you would override this routine to get rid of the `exit()` default behavior. Note that if you continue processing, you should clean up the JPEG object with `jpeg_abort()` or `jpeg_destroy()`.

`output_message (j_common_ptr cinfo)`

Actual output of any JPEG message. Override this to send messages

somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

`format_message (j_common_ptr cinfo, char * buffer)`

Constructs a readable error message string based on the error info stored in `cinfo->err`. This method is called by `output_message`. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

`emit_message (j_common_ptr cinfo, int msg_level)`

Decide whether or not to emit a warning or trace message; if so, calls `output_message`. The main reason for overriding this method would be to abort on warnings. `msg_level` is -1 for warnings, 0 and up for trace messages.

Only `error_exit()` and `emit_message()` are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field `err->jpeg_message_table`. The messages are numbered from 0 to `err->last_jpeg_message`, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See `jerror.h` for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer `err->addon_message_table` and the message numbers `err->first_addon_message` and `err->last_addon_message`. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications `cjpeg/djpeg` for an example of using addon messages (the addon messages are defined in `cderror.h`).

Actual invocation of the error handler is done via macros defined in `jerror.h`:

`ERREXITn(...)` for fatal errors

`WARNMSn(...)` for corrupt-data warnings

`TRACEMSn(...)` for trace and informational messages.

These macros store the message code and any additional parameters into the error handler struct, then invoke the `error_exit()` or `emit_message()` method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard `printf()` format codes.

See `jerror.h` and `jerror.c` for further details.

## Compressed data handling (source and destination managers)

---

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer; /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty\_output\_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

```
init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress()
before any data is actually written. It must initialize
next_output_byte and free_in_buffer. free_in_buffer must be
initialized to a positive value.
```

empty\_output\_buffer (j\_compress\_ptr cinfo)

This is called whenever the buffer has filled (free\_in\_buffer reaches zero). In typical applications, it should write out the \*entire\* buffer (use the saved start address and buffer length; ignore the current state of next\_output\_byte and free\_in\_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free\_in\_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term\_destination (j\_compress\_ptr cinfo)

Terminate destination --- called by jpeg\_finish\_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next\_output\_byte or free\_in\_buffer to determine how much data is in the buffer.

term\_destination() is NOT called by jpeg\_abort() or jpeg\_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg\_destination\_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg\_stdio\_dest() or jpeg\_mem\_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer; /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill\_input\_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init\_source (j\_decompress\_ptr cinfo)

Initialize source. This is called by jpeg\_read\_header() before any data is actually read. Unlike init\_destination(), it may leave bytes\_in\_buffer set to 0 (in which case a fill\_input\_buffer() call will occur immediately).

`fill_input_buffer(j_decompress_ptr cinfo)`

This is called whenever `bytes_in_buffer` has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of `next_input_byte` and `bytes_in_buffer`), reset the pointer & count to the start of the buffer, and return `TRUE` indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. `bytes_in_buffer` **MUST** be set to a positive value if `TRUE` is returned. A `FALSE` return should only be used when I/O suspension is desired (this mode is discussed in the next section).

`skip_input_data(j_decompress_ptr cinfo, long num_bytes)`

Skip `num_bytes` worth of data. The buffer pointer and count should be advanced over `num_bytes` input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. `bytes_in_buffer` may be zero on return. A zero or negative skip count should be treated as a no-op.

`resync_to_restart(j_decompress_ptr cinfo, int desired)`

This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, `jpeg_resync_to_restart()`. However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the `read_restart_marker()` and `jpeg_resync_to_restart()` routines in `jdmarker.c` if you think you'd like to implement your own resync procedure.

`term_source(j_decompress_ptr cinfo)`

Terminate source --- called by `jpeg_finish_decompress()` after all data has been read. Often a no-op.

For both `fill_input_buffer()` and `skip_input_data()`, there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via `ERREXIT()` or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. `jdatsrc.c` illustrates the recommended error recovery behavior.

`term_source()` is **NOT** called by `jpeg_abort()` or `jpeg_destroy()`. If you want

the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a `jpeg_source_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the `jpeg_stdio_src()` or `jpeg_mem_src()` routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in `jdatasrc.c` and `jdatadst.c`.

## I/O suspension

-----

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the `empty_output_buffer()` or `fill_input_buffer()` routine is a no-op, merely returning `FALSE` to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

### Compression suspension:

For compression suspension, use an `empty_output_buffer()` routine that returns `FALSE`; typically it will not do anything else. This will cause the compressor to return to the caller of `jpeg_write_scanlines()`, with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call `jpeg_write_scanlines()` again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although `empty_output_buffer()` is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of `next_output_byte/free_in_buffer`. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call `jpeg_write_scanlines()` unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

- \* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
- \* When you call `jpeg_finish_compress()`, there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling `jpeg_finish_compress()`.

A more significant restriction is that `jpeg_finish_compress()` cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during `jpeg_finish_compress()`, which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a `fill_input_buffer()` routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

- \* `jpeg_read_header()`: will return `JPEG_SUSPENDED`.
- \* `jpeg_start_decompress()`: will return FALSE, rather than its usual TRUE.
- \* `jpeg_read_scanlines()`: will return the number of scanlines already



completed (possibly 0).

\* `jpeg_finish_decompress()`: will return FALSE, rather than its usual TRUE. The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of `jpeg_read_scanlines()`, increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When `fill_input_buffer()` is called, `next_input_byte/bytes_in_buffer` point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The `skip_input_data()` source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement `bytes_in_buffer` to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then `skip_input_data()` must set `bytes_in_buffer` to zero and record the additional skip distance somewhere else. The decompressor will immediately call `fill_input_buffer()`, which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within `fill_input_buffer()`; the latter is probably more efficient. If `fill_input_buffer()` knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this

situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling `skip_input_data()`. In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on `skip_input_data`'s shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having `empty_output_buffer()` or `fill_input_buffer()` set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when `fill_input_buffer()` is called, the current pointer & count indicate the backtrack restart point. Since `fill_input_buffer()` will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to `fill_input_buffer()` occurs in the same library call, and no additional input data is available, so `fill_input_buffer` must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then \*the correct restart point is the saved position in the prior buffer\*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a `skip_input_data()` call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when `fill_input_buffer()` is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support

-----

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a

slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the `scan_info` `cinfo` field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the `jpeg_simple_progression()` helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in `rdswitch.c`, so that you can read scan script files just like `cjpeg's`.)

When `scan_info` is not `NULL`, the compression library will store DCT'd data into a buffer array as `jpeg_write_scanlines()` is called, and will emit all the requested scans during `jpeg_finish_compress()`. This implies that multiple-scan output cannot be created with a suspending data destination manager, since `jpeg_finish_compress()` does not support suspension. We

should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during `jpeg_start_decompress()`, so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from `jpeg_start_decompress()`.

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

-----

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
 adjust output decompression parameters if required
 jpeg_start_output() /* start a new output pass */
 for (all scanlines in image) {
 jpeg_read_scanlines()
 display scanlines
 }
 jpeg_finish_output() /* terminate output pass */
}
```

```
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to `jpeg_start_output()` indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and `jpeg_finish_output()` advances to the next scan or end-of-image marker (hence `input_scan_number` will be incremented by the time control arrives back at `jpeg_start_output()`). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the `jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output()` sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call `jpeg_finish_decompress()` to release the buffered image (or just use `jpeg_destroy_decompress()`).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine `jpeg_consume_input()`.

The return value is one of the following:

JPEG\_REACHED\_SOS: reached an SOS marker (the start of a new scan)

JPEG\_REACHED\_EOI: reached the EOI marker (end of image)

JPEG\_ROW\_COMPLETED: completed reading one MCU row of compressed data

JPEG\_SCAN\_COMPLETED: completed reading last MCU row of current scan

JPEG\_SUSPENDED: suspended before completing any of the above (JPEG\_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG\_REACHED\_EOI without attempting to read more data.)

The library's output processing will automatically call `jpeg_consume_input()` whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to `jpeg_consume_input()`. But by adding calls to `jpeg_consume_input()`, you can absorb data in advance of what is being displayed. This has two benefits:

- \* You can limit buildup of unprocessed data in your input buffer.
- \* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to `jpeg_consume_input()` with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call `jpeg_consume_input()` only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call `jpeg_consume_input()` from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass `cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`. The `input_scan_number` field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling `jpeg_start_output()`: call `jpeg_consume_input()` repeatedly until it returns JPEG\_SUSPENDED or JPEG\_REACHED\_EOI.

The target scan number passed to `jpeg_start_output()` is saved in the `cinfo.output_scan_number` field. The library's output processing calls `jpeg_consume_input()` whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what

jpeg\_start\_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg\_consume\_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```
do {
 absorb any waiting input by calling jpeg_consume_input()
 final_pass = jpeg_input_complete(&cinfo);
 adjust output decompression parameters if required
 jpeg_start_output(&cinfo, cinfo.input_scan_number);
 ...
 jpeg_finish_output()
} while (! final_pass);
```

rather than quitting as soon as jpeg\_input\_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```
for (;;) {
 absorb any waiting input by calling jpeg_consume_input()
 jpeg_start_output(&cinfo, cinfo.input_scan_number);
 ...
 jpeg_finish_output()
 if (jpeg_input_complete(&cinfo) &&
 cinfo.input_scan_number == cinfo.output_scan_number)
```

```
break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the `JPEG_REACHED_EOI` return code from `jpeg_consume_input()`, or equivalently by testing `jpeg_input_complete()`.) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call `jpeg_finish_output()` and then start a new pass with `jpeg_start_output()`.

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting `JPEG_REACHED_SOS` returns and/or examining `cinfo.input_scan_number`. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call `jpeg_consume_input()` until it returns `JPEG_REACHED_SOS` or `JPEG_REACHED_EOI`. Or just use the next higher number as the target scan for `jpeg_start_output()`; but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, `jpeg_start_decompress()` never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

- \* `jpeg_start_output()` performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
- \* `jpeg_read_scanlines()`, as always, returns the number of scanlines that it was able to produce before suspending.



\* `jpeg_finish_output()` will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if `jpeg_consume_input()` has already reached the end of the file or a SOS marker beyond the target output scan.)

\* `jpeg_finish_decompress()` will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling `jpeg_input_complete()`).

`jpeg_start_output()`, `jpeg_finish_output()`, and `jpeg_finish_decompress()` all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after `jpeg_start_decompress()` is called:

\* `dct_method` can be changed before each call to `jpeg_start_output()`.

For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.

\* `dither_mode` can be changed before each call to `jpeg_start_output()`; of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to

Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial `max_memory_to_use` specification to be exceeded, which in the worst case would result in an out-of-memory failure.

\* `do_block_smoothing` can be changed before each call to `jpeg_start_output()`.

This setting is relevant only when decoding a progressive JPEG image.

During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

\* Color quantization mode can be changed under the rules described below.

You \*cannot\* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.

Selected by `cinfo.two_pass_quantize = FALSE` and `cinfo.colormap = NULL`.

2. Single-pass quantization to an application-supplied colormap.

Selected by setting `cinfo.colormap` to point to the colormap (the value of `two_pass_quantize` is ignored); also set `cinfo.actual_number_of_colors`.

3. Two-pass quantization to a colormap chosen specifically for the image. Selected by `cinfo.two_pass_quantize = TRUE` and `cinfo.colormap = NULL`. (This is the default setting selected by `jpeg_read_header`, but it is probably NOT what you want for the first pass of progressive display!) These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

**IMPORTANT:** because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call `jpeg_start_decompress()`. (If we did not require this, the `max_memory_to_use` setting would be a complete fiction.) You do this by setting one or more of these three `cinfo` fields to `TRUE`:

- `enable_1pass_quant` Fixed color cube colormap
- `enable_external_quant` Externally-supplied colormap
- `enable_2pass_quant` Two-pass custom colormap

All three are initialized `FALSE` by `jpeg_read_header()`. But `jpeg_start_decompress()` automatically sets `TRUE` the one selected by the current `two_pass_quantize` and `colormap` settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at `jpeg_start_decompress()` time, you can change to any enabled quantization method by setting `two_pass_quantize` and `colormap` properly just before calling `jpeg_start_output()`. The following special rules apply:

1. You must explicitly set `cinfo.colormap` to `NULL` when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call `jpeg_new_colormap()` after setting `cinfo.colormap`.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because `cinfo.colormap` will always be non-`NULL` after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during `jpeg_start_output()`, not during `jpeg_start_decompress()`.

When using two-pass quantization, `jpeg_start_output()` makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The

progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, `jpeg_start_output()` will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a `FALSE` return from `jpeg_start_output()` under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which `jpeg_start_output()` will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling `jpeg_has_multiple_scans()`, which will return a correct result at any time after `jpeg_read_header()` completes.

It is also worth noting that when you use `jpeg_consume_input()` to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager `jmemnobs.c` if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that `max_memory_to_use` is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use `jpeg_consume_input()` for all input processing, including reading the initial markers; that is, you may wish to call `jpeg_consume_input()` instead of `jpeg_read_header()` during startup. This works, but note that you must check for `JPEG_REACHED_SOS` and `JPEG_REACHED_EOI` return codes as the equivalent of `jpeg_read_header()`'s codes. Once the first SOS marker has been reached, you must call `jpeg_start_decompress()` before `jpeg_consume_input()` will consume more input; it'll just keep returning `JPEG_REACHED_SOS` until you do. If you read a tables-only file this way, `jpeg_consume_input()` will return `JPEG_REACHED_EOI` without ever returning `JPEG_REACHED_SOS`; be sure to check for this case. If this happens, the decompressor will not read any more input until you call `jpeg_abort()` to reset it. It is OK to call `jpeg_consume_input()` even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return `JPEG_SUSPENDED`.

Abbreviated datastreams and multiple images  
-----

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:

- \* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
- \* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
- \* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent\_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent\_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg\_start\_compress() will prevent the table from being written at

all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg\_suppress\_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent\_table fields directly.

To create an abbreviated image, you must also call jpeg\_start\_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg\_start\_compress() will force all the sent\_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg\_start\_compress() and so on, call jpeg\_write\_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent\_tables flag is already TRUE, and then all the sent\_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

```
create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);
```

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg\_start\_compress() ... jpeg\_finish\_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize\_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg\_copy\_critical\_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```
if (cinfo.quant_tbl_ptrs[n] == NULL)
 cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
 /* Qtable[] is desired quantization table, in natural array order */
 quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
 cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
 /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
 huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
 /* symbols[] is the list of Huffman symbols, in code-length order */
 huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set `cinfo.quant_tbl_ptrs[n]` to point directly at a constant `JQUANT_TBL` object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The `jpeg_read_header()` call is sufficient to read a tables-only file. You must pass a second parameter of `FALSE` to indicate that you do not require an image to be present. Thus, the typical scenario is

```
create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
```

```
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);
```

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass `FALSE` and check the return value from `jpeg_read_header()`: it will be `JPEG_HEADER_OK` if an image was found, `JPEG_HEADER_TABLES_ONLY` if only tables were found. (A third return value, `JPEG_SUSPENDED`, is possible when using a suspending data source manager.) Note that `jpeg_read_header()` will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in `jpeg_start_decompress()`.

It is possible to read a series of images from a single source file by repeating the `jpeg_read_header() ... jpeg_finish_decompress()` sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at `term_destination()` time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing `FALSE` to `jpeg_start_compress()`.

## Special markers

-----

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary

garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling `jpeg_write_marker()` after `jpeg_start_compress()` and before the first call to `jpeg_write_scanlines()`. When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG\_COM" for COM or "JPEG\_APP0 + n" for APPn. (Actually, `jpeg_write_marker` will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by `comment_text`:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once, you can instead call `jpeg_write_m_header()` followed by multiple calls to `jpeg_write_m_byte()`. If you do it this way, it's your responsibility to call `jpeg_write_m_byte()` exactly the number of times given in the length parameter to `jpeg_write_m_header()`. (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set `cinfo.JFIF_minor_version = 2` so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version



numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling `jpeg_read_header()`, because the markers of interest will typically be near the head of the file and so will be scanned by `jpeg_read_header`. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call `jpeg_save_markers(cinfo, marker_code, length_limit)` where `marker_code` is the marker type to save, `JPEG_COM` or `JPEG_APP0+n`. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than `length_limit` data bytes, only `length_limit` bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set `length_limit` to `0xFFFF`; that is enough since marker lengths are only 16 bits. As a special case, setting `length_limit` to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After `jpeg_read_header()` completes, you can examine the special markers by following the `cinfo->marker_list` pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed `length_limit` for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which `jpeg_read_header` stops; if so, the marker list will be

extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing `jpeg_read_header`, to ensure that the `max_memory_to_use` setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call `jpeg_finish_decompress` or `jpeg_abort`, at which point the memory is freed and the list is set to empty. (`jpeg_destroy` also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by `malloc()` limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling `jpeg_set_marker_processor()`. A marker processor routine must have the signature

```
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in `cinfo->unread_marker`. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in `jdmarker.c` for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling `jpeg_save_markers()`; that method doesn't interfere with the library's own processing of these markers.)

`jpeg_set_marker_processor()` and `jpeg_save_markers()` are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in `djpeg.c`. Also, see `jpegtran.c` for an example of using `jpeg_save_markers`.

Raw (downsampled) image data

-----

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set `jpeg_color_space = in_color_space` (or `jpeg_color_space = out_color_space` for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. Before calling `jpeg_start_compress()`, you must do the following:

- \* Set `cinfo->raw_data_in` to TRUE. (It is set FALSE by `jpeg_set_defaults()`.) This notifies the library that you will be supplying raw data.
- \* Ensure `jpeg_color_space` is correct --- an explicit `jpeg_set_colorspace()` call is a good idea. Note that since color conversion is bypassed, `in_color_space` is ignored, except that `jpeg_set_defaults()` uses it to choose the default `jpeg_color_space` setting.
- \* Ensure the sampling factors, `cinfo->comp_info[i].h_samp_factor` and `cinfo->comp_info[i].v_samp_factor`, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call `jpeg_write_raw_data()` in place of `jpeg_write_scanlines()`. The two routines work similarly except that

jpeg\_write\_raw\_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg\_write\_raw\_data is measured in terms of the component with the largest v\_samp\_factor.

jpeg\_write\_raw\_data() processes one MCU row per call, which is to say v\_samp\_factor\*DCTSIZE sample rows of each component. The passed num\_lines value must be at least max\_v\_samp\_factor\*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

```
cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row
cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image
after jpeg_start_compress() has initialized those fields. If the valid data
is smaller than this, it must be padded appropriately. For some sampling
factors and image sizes, additional dummy DCT blocks are inserted to make
the image a multiple of the MCU dimensions. The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than DCTSIZE samples. An example may help here.
Assume 2h2v downsampling of YCbCr data, that is
```

```
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1
```

and suppose that the nominal image dimensions (cinfo->image\_width and cinfo->image\_height) are 101x101 pixels. Then jpeg\_start\_compress() will compute downsampled\_width = 101 and width\_in\_blocks = 13 for Y, downsampled\_width = 51 and width\_in\_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least  $13*8 = 104$  columns and rows, the Cb/Cr data to at least  $7*8 = 56$  columns and rows. The MCU height is max\_v\_samp\_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg\_write\_raw\_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of  $7*16 = 112$  "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg\_write\_raw\_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing:

you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set `cinfo->raw_data_out = TRUE` before `jpeg_start_decompress()` (it is set `FALSE` by `jpeg_read_header()`). Be sure to verify that the color space and sampling factors are ones you can handle. Then call `jpeg_read_raw_data()` in place of `jpeg_read_scanlines()`. The decompression process is otherwise the same as usual.

`jpeg_read_raw_data()` returns one MCU row per call, and thus you must pass a buffer of at least `max_v_samp_factor*DCTSIZE` scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, `jpeg_read_raw_data()` will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

-----

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do `jpeg_read_header()` as usual. But instead of calling `jpeg_start_decompress()` and `jpeg_read_scanlines()`, call `jpeg_read_coefficients()`. This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's `access_virt_barray` method (see Memory management, below, and also read `structure.txt`'s discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to `jpeg_write_coefficients()`.

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only

DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the `width_in_blocks` and `height_in_blocks` fields of the component's `comp_info` entry.) This is also the data format expected by `jpeg_write_coefficients()`.

When you are done using the virtual arrays, call `jpeg_finish_decompress()` to release the array storage and return the decompression object to an idle state; or just call `jpeg_destroy()` if you don't need to reuse the object.

If you use a suspending data source, `jpeg_read_coefficients()` will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call `jpeg_read_coefficients()` to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call `jpeg_read_coefficients()` after the last `jpeg_finish_output()` call. The arrays will be available for your use until you call `jpeg_finish_decompress()`.

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by `jpeg_read_coefficients()`, or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, `jpeg_write_coefficients()` is substituted for `jpeg_start_compress()` and `jpeg_write_scanlines()`. Thus the sequence is

- \* Create compression object
- \* Set all compression parameters as necessary
- \* Request virtual arrays if needed
- \* `jpeg_write_coefficients()`
- \* `jpeg_finish_compress()`
- \* Destroy or re-use compression object

`jpeg_write_coefficients()` is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to `cinfo.num_components`.

The virtual arrays need only have been requested, not realized, before `jpeg_write_coefficients()` is called. A side-effect of `jpeg_write_coefficients()` is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling `jpeg_write_coefficients()`. The data is actually written out when you call `jpeg_finish_compress()`; `jpeg_write_coefficients()` only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using `jpeg_copy_critical_parameters()`. This routine initializes all the compression parameters to default values (like `jpeg_set_defaults()`), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting `jpeg_finish_decompress()`.

`jpeg_write_coefficients()` marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like `jpeg_start_compress(cinfo, TRUE)`). This is for safety's sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an abbreviated JPEG file, call `jpeg_suppress_tables()`, or set the tables' individual `sent_table` flags, between calling `jpeg_write_coefficients()` and `jpeg_finish_compress()`.

#### Progress monitoring

-----

Some applications may need to regain control from the JPEG library every so often. The typical use of this feature is to produce a percent-done bar or other progress display. (For a simple example, see `cjpeg.c` or `djpeg.c`.) Although you do get control back frequently during the data-transferring pass (the `jpeg_read_scanlines` or `jpeg_write_scanlines` loop), any additional passes will occur inside `jpeg_finish_compress` or `jpeg_start_decompress`; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of `jpeg_read_scanlines` or `jpeg_write_scanlines`, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct `jpeg_progress_mgr`, fill in its `progress_monitor` field with a pointer to your callback routine, and set `cinfo->progress` to point to the struct. The callback will be called whenever `cinfo->progress` is non-NULL. (This pointer is set to NULL by `jpeg_create_compress` or `jpeg_create_decompress`; the library will not change

it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL\_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The `jpeg_progress_mgr` struct contains four fields which are set by the library:

```
long pass_counter; /* work units completed in this pass */
long pass_limit; /* total number of work units in this pass */
int completed_passes; /* passes completed so far */
int total_passes; /* total number of passes expected */
```

During any one pass, `pass_counter` increases from 0 up to (not including) `pass_limit`; the step size is usually but not necessarily 1. The `pass_limit` value may change from one pass to another. The expected total number of passes is in `total_passes`, and the number of passes already completed is in `completed_passes`. Thus the fraction of work completed may be estimated as

$$\frac{\text{completed\_passes} + (\text{pass\_counter}/\text{pass\_limit})}{\text{total\_passes}}$$

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, `pass_limit` can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets `total_passes` based on the assumption that there will be one more output pass if the input file end hasn't yet been read (`jpeg_input_complete()` isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that `total_passes` will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

## Memory management

-----

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read `structure.txt`'s section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the



library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg\_finish\_compress, jpeg\_finish\_decompress, or jpeg\_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL\_PERMANENT to get storage that lasts as long as the JPEG object.

Use alloc\_large instead of alloc\_small for anything bigger than a few Kbytes.

There are also alloc\_sarray and alloc\_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max\_memory\_to\_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg\_start\_compress() or jpeg\_start\_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc\_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max\_memory\_to\_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg\_abort() or jpeg\_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either,

since the C library is supposed to take care of deleting files made with `tmpfile()`.

## Memory usage

-----

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:

1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes \* width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use `jmemnobs` and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the `MEM_STATS` code in `jmemmgr.c`.

## Library compile-time options

-----

A number of compile-time options are available by modifying `jmorecfg.h`.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define `BITS_IN_JSAMPLE` as 12 rather than 8. Note that this causes `JSAMPLE` to be larger than a char, so it affects the surrounding application's image data.

The sample applications `cjpeg` and `djpeg` can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit `cjpeg` or `djpeg`. (`install.txt` has more information about that.)

At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining `NEED_SHORT_EXTERNAL_NAMES` for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables.

You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by `MAX_COMPONENTS`. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in `jmorecfg.h`. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making `JCOEF`, `INT16`, and `UINT16` be "int" or "unsigned int". `UINT8` is also a candidate to become int. You probably don't want to make `JSAMPLE` be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine `xxx_SUPPORTED` symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table

(jpeg\_std\_message\_table[]) from jerror.c, and alter format\_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

#### Portability considerations

-----

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that

- char is at least 8 bits wide
- short is at least 16 bits wide
- int is at least 16 bits wide
- long is at least 32 bits wide

(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select\_file\_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error

handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED\_SHORT\_EXTERNAL\_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors

-----

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600

bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/libjpeg.txt
No license file was found, but licenses were detected in source scan.
```

## TurboJPEG Java Wrapper

=====

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under `org/libjpegturbo/turbojpeg`. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of `libjpeg-turbo`.

`TJExample.java`, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

## Performance Pitfalls

-----

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

## Installation Directory

-----

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD\_LIBRARY\_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path\_to\_JNI\_library} to java.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/java/README  
No license file was found, but licenses were detected in source scan.

```
/*
 * jdcolect.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
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 *
 * This file contains output colorspace conversion routines.
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jdcolect.c  
No license file was found, but licenses were detected in source scan.

```
/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/cdjpeg.h  
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; for more details.

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimxfst.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2fst.asm
- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm

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/\*

\* jsimddct.h

\*

\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

\*

\* Based on the x86 SIMD extension for IJG JPEG library,

\* Copyright (C) 1999-2006, MIYASAKA Masaru.

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\*

\*/

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimddct.h

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/\*

\* jcmarker.c

\*

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\*

\* This file contains routines to write JPEG datastream markers.



\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jcmarker.c  
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/\*

\* jmemmgr.c

\*

\* Copyright (C) 1991-1997, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains the JPEG system-independent memory management

\* routines. This code is usable across a wide variety of machines; most

\* of the system dependencies have been isolated in a separate file.

\* The major functions provided here are:

\* \* pool-based allocation and freeing of memory;

\* \* policy decisions about how to divide available memory among the  
\* virtual arrays;

\* \* control logic for swapping virtual arrays between main memory and  
\* backing storage.

\* The separate system-dependent file provides the actual backing-storage

\* access code, and it contains the policy decision about how much total

\* main memory to use.

\* This file is system-dependent in the sense that some of its functions

\* are unnecessary in some systems. For example, if there is enough virtual

\* memory so that backing storage will never be used, much of the virtual

\* array control logic could be removed. (Of course, if you have that much

\* memory then you shouldn't care about a little bit of unused code...)

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jmemmgr.c  
No license file was found, but licenses were detected in source scan.

/\*

\* jidctflt.c

\*

\* Copyright (C) 1994-1998, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains a floating-point implementation of the

\* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine

\* must also perform dequantization of the input coefficients.

\*  
 \* This implementation should be more accurate than either of the integer  
 \* IDCT implementations. However, it may not give the same results on all  
 \* machines because of differences in roundoff behavior. Speed will depend  
 \* on the hardware's floating point capacity.  
 \*  
 \* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT  
 \* on each row (or vice versa, but it's more convenient to emit a row at  
 \* a time). Direct algorithms are also available, but they are much more  
 \* complex and seem not to be any faster when reduced to code.  
 \*  
 \* This implementation is based on Arai, Agui, and Nakajima's algorithm for  
 \* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in  
 \* Japanese, but the algorithm is described in the Pennebaker & Mitchell  
 \* JPEG textbook (see REFERENCES section in file README). The following code  
 \* is based directly on figure 4-8 in P&M.  
 \* While an 8-point DCT cannot be done in less than 11 multiplies, it is  
 \* possible to arrange the computation so that many of the multiplies are  
 \* simple scalings of the final outputs. These multiplies can then be  
 \* folded into the multiplications or divisions by the JPEG quantization  
 \* table entries. The AA&N method leaves only 5 multiplies and 29 adds  
 \* to be done in the DCT itself.  
 \* The primary disadvantage of this method is that with a fixed-point  
 \* implementation, accuracy is lost due to imprecise representation of the  
 \* scaled quantization values. However, that problem does not arise if  
 \* we use floating point arithmetic.  
 \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
 archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jidctflt.c  
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 \* contributors may be used to endorse or promote products derived from this  
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\* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF  
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\* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN  
\* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
\* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjbench.c  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/tjunitest.c  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg.c  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/turbojpeg.h  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-  
1.2.90/java/TJBench.java

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

/\*

\* jsimd\_none.c  
\*  
\* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB  
\* Copyright 2009-2011 D. R. Commander  
\*  
\* Based on the x86 SIMD extension for IJG JPEG library,  
\* Copyright (C) 1999-2006, MIYASAKA Masaru.  
\* For conditions of distribution and use, see copyright notice in jsimdext.inc  
\*  
\* This file contains stubs for when there is no SIMD support available.  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-  
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jsimd\_none.c

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License: BSD-style

libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/release/libjpeg-
turbo.spec.in
```

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```
/*
```

```
* jsimd_arm.c
```

```
*
```

```
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
```

```
* Copyright 2009-2011 D. R. Commander
```

```
*
```

```
* Based on the x86 SIMD extension for IJG JPEG library,
```

```
* Copyright (C) 1999-2006, MIYASAKA Masaru.
```

```
* For conditions of distribution and use, see copyright notice in jsimdext.inc
```

```
*
```

```
* This file contains the interface between the "normal" portions
```

```
* of the library and the SIMD implementations when running on
```

```
* ARM architecture.
```

```
*
```

```
* Based on the stubs from 'jsimd_none.c'
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/simd/jsimd_arm.c
```

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libjpeg-turbo note: This image was extracted from the 8-bit nightshot\_iso\_100 image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008

[http://www.imagecompression.info/test\\_images](http://www.imagecompression.info/test_images)

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and its about time they become a part of history only. They are too small, come from data sources too old and are available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

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Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]  
sachingarg@c10n.info

[www.sachingarg.com](http://www.sachingarg.com) | [www.c10n.info](http://www.c10n.info) | [www.imagecompression.info](http://www.imagecompression.info)

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1007828089_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-
archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-
1.2.90/testimages/nightshot_iso_100.txt
```

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

```
/*
```

```
* jfdctfst.c
```

```
*
```

```
* Copyright (C) 1994-1996, Thomas G. Lane.
```

```
* This file is part of the Independent JPEG Group's software.
```

```
* For conditions of distribution and use, see the accompanying README file.
```

```
*
```

```
* This file contains a fast, not so accurate integer implementation of the
```

```
* forward DCT (Discrete Cosine Transform).
```

```
*
```

```
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
```

```
* on each column. Direct algorithms are also available, but they are
```

```
* much more complex and seem not to be any faster when reduced to code.
```

```
*
```

```
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
```

```
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
```

```
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
```

```
* JPEG textbook (see REFERENCES section in file README). The following code
```

```
* is based directly on figure 4-8 in P&M.
```

```
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
```

```
* possible to arrange the computation so that many of the multiplies are
```

```
* simple scalings of the final outputs. These multiplies can then be
```

```
* folded into the multiplications or divisions by the JPEG quantization
```

```
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
```

- \* to be done in the DCT itself.
- \* The primary disadvantage of this method is that with fixed-point math,
- \* accuracy is lost due to imprecise representation of the scaled
- \* quantization values. The smaller the quantization table entry, the less
- \* precise the scaled value, so this implementation does worse with high-
- \* quality-setting files than with low-quality ones.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/jfdctfst.c  
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/\*

\* wrle.c

\*

\* Copyright (C) 1991-1996, Thomas G. Lane.

\* This file is part of the Independent JPEG Group's software.

\* For conditions of distribution and use, see the accompanying README file.

\*

\* This file contains routines to write output images in RLE format.

\* The Utah Raster Toolkit library is required (version 3.1 or later).

\*

\* These routines may need modification for non-Unix environments or

\* specialized applications. As they stand, they assume output to

\* an ordinary stdio stream.

\*

\* Based on code contributed by Mike Lijewski,

\* with updates from Robert Hutchinson.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrle.c  
No license file was found, but licenses were detected in source scan.

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jsimdcpu.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jimxred.asm

\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jccolss2.asm



1.2.90/simd/jdclrmx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmrgmmx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqnts2i-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgryss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jf3dnflt.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmerss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmrgss2-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsamss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqntsse.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrass2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdmrgss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqnts2f-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jisseflt.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2red.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jccclrmx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqntmmx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcqnt3dn.asm



\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdclrss2.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrass2-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdclrss2-64.asm  
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\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2red-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcgrammx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jcsamss2-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdcolss2-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsammmx.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jiss2flt-64.asm  
\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/simd/jdsamss2-64.asm

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\* This file contains routines to write output images in PPM/PGM format.

\* The extended 2-byte-per-sample raw PPM/PGM formats are supported.

- \* The PBMPLUS library is NOT required to compile this software
- \* (but it is highly useful as a set of PPM image manipulation programs).
- \*
- \* These routines may need modification for non-Unix environments or
- \* specialized applications. As they stand, they assume output to
- \* an ordinary stdio stream.
- \*/

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\* /opt/ws\_local/PERMITS\_SQL/1007828089\_1591902017.54/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-izMLZnt8/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Cd49Tbdd/libjpeg-turbo-1.2.90/wrppm.c

## 1.147 rspec-its 1.2.0

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```
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4Constants.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/XXHash32.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/util/ByteBufferUtils.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-
jar/net/jpountz/lz4/LZ4JNICompressor.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/util/UnsafeUtils.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-
jar/net/jpountz/lz4/LZ4FastDecompressor.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/XXHash32JNI.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/util/SafeUtils.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4Exception.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4Decompressor.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-
jar/net/jpountz/xxhash/AbstractStreamingXXHash32Java.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-
jar/net/jpountz/lz4/LZ4JNIFastDecompressor.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-
jar/net/jpountz/xxhash/XXHashConstants.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-
jar/net/jpountz/lz4/LZ4UnknownSizeDecompressor.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-
jar/net/jpountz/lz4/LZ4JNISafeDecompressor.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4UnsafeUtils.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-
jar/net/jpountz/lz4/LZ4SafeDecompressor.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-
jar/net/jpountz/xxhash/XXHashFactory.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4JNI.java
```

\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4HCJNICompressor.java  
\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4Compressor.java  
\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/XXHashJNI.java  
\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4ByteBufferUtils.java  
\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4Utils.java  
\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/StreamingXXHash32JNI.java  
\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4Factory.java  
\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/util/Native.java  
\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4SafeUtils.java  
\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4BlockOutputStream.java  
\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4BlockInputStream.java  
\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/util/Utils.java  
\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/StreamingXXHash32.java

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\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4DecompressorWithLength.java

\* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4CompressorWithLength.java

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- \* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/package.html
- \* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/overview.html
- \* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/util/package.html
- \* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/package.html

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- \* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4FrameOutputStream.java
- \* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4FrameInputStream.java

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- \* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/XXHash64JNI.java
- \* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/XXHash64.java
- \* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/AbstractStreamingXXHash64Java.java
- \* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/StreamingXXHash64.java
- \* /opt/cola/permits/1192756266\_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/StreamingXXHash64JNI.java

## 1.149 iproute 4.11.0-30.el7

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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## 1.150 json-smart 1.3.2

### 1.150.1 Available under license :

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```
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```

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\*/

Found in path(s):

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONUtil.java

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\*/

Found in path(s):

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONArray.java

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserReader.java

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONStyleIdent.java

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserInputStream.java

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/ContentHandler.java

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParser.java

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserStream.java

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserMemory.java

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserBase.java

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONStreamAwareEx.java

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserByteArray.java

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/JSONParserString.java

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/ContentHandlerCompressor.java  
\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONNavi.java  
\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JStylerObj.java  
\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/FakeContainerFactory.java  
\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONAware.java  
\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONStyle.java  
\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONStreamAware.java  
\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/ContentHandlerDumy.java  
\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONValue.java  
\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/ParseException.java  
\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONObject.java  
\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/parser/ContainerFactory.java  
\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/net/minidev/json/JSONAwareEx.java

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Found in path(s):

\* /opt/cola/permits/1211526287\_1633593172.35/0/json-smart-1-3-2-sources-2-jar/META-INF/maven/net.minidev/json-smart/pom.xml

## 1.151 libteam 1.29-3.el7

### 1.151.1 Available under license :

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Version 2.1, February 1999

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```
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```
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```

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Ty Coon, President of Vice
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for

the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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Version 2.1, February 1999

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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Version 3, 29 June 2007

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

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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---

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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Program            Directory

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mach\_override    lib/interception/mach\_override

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@center Version 2.1, February 1999

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@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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Give prominent notice with the combined library of the fact



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@page

@appendixsubsec 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.

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@var{signature of Ty Coon}, 1 April 1990  
Ty Coon, President of Vice  
@end smallexample

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@settitle GNU Free Documentation License  
@c man begin SEEALSO  
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@comment node-name, next, previous, up
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@html
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@unnumbered GNU Free Documentation License
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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

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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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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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## 1.155 libthai 0.1.14 9.e17

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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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# 1.156 atk 2.28.1 2.e17

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## 1.157 mixlib-cli 1.7.0

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# 1.159 go 1.11.13

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# 1.160 elasticsearch-cli 7.16.3

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## 1.165 lucene-sandbox 8.10.1

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Nori Korean Morphological Analyzer - Apache Lucene Integration

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## 1.166 coreutils 8.22 24.el7

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```
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```

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```
#include <config.h>
#include <stdio.h>
#include <sys/types.h>
#include <pwd.h>
#include <grp.h>

#include "system.h"
#include "chown-core.h"
#include "error.h"
#include "ignore-value.h"
#include "quote.h"
#include "root-dev-ino.h"
#include "xfts.h"

#define FTSENT_IS_DIRECTORY(E) \
((E)->fts_info == FTS_D \
 || (E)->fts_info == FTS_DC \
 || (E)->fts_info == FTS_DP \
 || (E)->fts_info == FTS_DNR)

enum RCH_status
{
 /* we called fchown and close, and both succeeded */
 RC_ok = 2,

 /* required_uid and/or required_gid are specified, but don't match */
 RC_excluded,

 /* SAME_INODE check failed */
 RC_inode_changed,

 /* open/fchown isn't needed, isn't safe, or doesn't work due to
 permissions problems; fall back on chown */
 RC_do_ordinary_chown,

 /* open, fstat, fchown, or close failed */
 RC_error
};

extern void
chopt_init (struct Chown_option *chopt)
```

```

{
chopt->verbosity = V_off;
chopt->root_dev_ino = NULL;
chopt->affect_symlink_referent = true;
chopt->recurse = false;
chopt->force_silent = false;
chopt->user_name = NULL;
chopt->group_name = NULL;
}

extern void
chopt_free (struct Chown_option *chopt _GL_UNUSED)
{
/* Deliberately do not free chopt->user_name or ->group_name.
 They're not always allocated. */
}

/* Convert the numeric group-id, GID, to a string stored in xmalloc'd memory,
 and return it. If there's no corresponding group name, use the decimal
 representation of the ID. */

extern char *
gid_to_name (gid_t gid)
{
char buf[INT_BUFSIZE_BOUND (intmax_t)];
struct group *grp = getgrgid (gid);
return xstrdup (grp ? grp->gr_name
 : TYPE_SIGNED (gid_t) ? imaxtostr (gid, buf)
 : umaxtostr (gid, buf));
}

/* Convert the numeric user-id, UID, to a string stored in xmalloc'd memory,
 and return it. If there's no corresponding user name, use the decimal
 representation of the ID. */

extern char *
uid_to_name (uid_t uid)
{
char buf[INT_BUFSIZE_BOUND (intmax_t)];
struct passwd *pwd = getpwuid (uid);
return xstrdup (pwd ? pwd->pw_name
 : TYPE_SIGNED (uid_t) ? imaxtostr (uid, buf)
 : umaxtostr (uid, buf));
}

/* Allocate a string representing USER and GROUP. */

static char *

```



```

user_group_str (char const *user, char const *group)
{
 char *spec = NULL;

 if (user)
 {
 if (group)
 {
 spec = xmalloc (strlen (user) + 1 + strlen (group) + 1);
 stpcpy (stpcpy (stpcpy (spec, user), ":"), group);
 }
 else
 {
 spec = xstrdup (user);
 }
 }
 else if (group)
 {
 spec = xstrdup (group);
 }

 return spec;
}

/* Tell the user how/if the user and group of FILE have been changed.
 If USER is NULL, give the group-oriented messages.
 CHANGED describes what (if anything) has happened. */

static void
describe_change (const char *file, enum Change_status changed,
 char const *old_user, char const *old_group,
 char const *user, char const *group)
{
 const char *fmt;
 char *old_spec;
 char *spec;

 if (changed == CH_NOT_APPLIED)
 {
 printf (_("neither symbolic link %s nor referent has been changed\n"),
 quote (file));
 return;
 }

 spec = user_group_str (user, group);
 old_spec = user_group_str (user ? old_user : NULL, group ? old_group : NULL);

 switch (changed)

```

```

{
case CH_SUCCEEDED:
 fmt = (user ? _("changed ownership of %s from %s to %s\n")
 : group ? _("changed group of %s from %s to %s\n")
 : _("no change to ownership of %s\n"));
 break;
case CH_FAILED:
 if (old_spec)
 {
 fmt = (user ? _("failed to change ownership of %s from %s to %s\n")
 : group ? _("failed to change group of %s from %s to %s\n")
 : _("failed to change ownership of %s\n"));
 }
 else
 {
 fmt = (user ? _("failed to change ownership of %s to %s\n")
 : group ? _("failed to change group of %s to %s\n")
 : _("failed to change ownership of %s\n"));
 free (old_spec);
 old_spec = spec;
 spec = NULL;
 }
 break;
case CH_NO_CHANGE_REQUESTED:
 fmt = (user ? _("ownership of %s retained as %s\n")
 : group ? _("group of %s retained as %s\n")
 : _("ownership of %s retained\n"));
 break;
default:
 abort ();
}

printf (fmt, quote (file), old_spec, spec);

free (old_spec);
free (spec);
}

/* Change the owner and/or group of the FILE to UID and/or GID (safely)
only if REQUIRED_UID and REQUIRED_GID match the owner and group IDs
of FILE. ORIG_ST must be the result of 'stat'ing FILE.

```

The 'safely' part above means that we can't simply use `chown(2)`, since `FILE` might be replaced with some other file between the time of the preceding `stat/lstat` and this `chown` call. So here we open `FILE` and do everything else via the resulting file descriptor. We first call `fstat` and verify that the `dev/inode` match those from the preceding `stat` call, and only then, if appropriate (given the

required\_uid and required\_gid constraints) do we call fchown.

Return RC\_do\_ordinary\_chown if we can't open FILE, or if FILE is a special file that might have undesirable side effects when opening.

In this case the caller can use the less-safe ordinary chown.

Return one of the RCH\_status values. \*/

```
static enum RCH_status
restricted_chown (int cwd_fd, char const *file,
 struct stat const *orig_st,
 uid_t uid, gid_t gid,
 uid_t required_uid, gid_t required_gid)
{
 enum RCH_status status = RC_ok;
 struct stat st;
 int open_flags = O_NONBLOCK | O_NOCTTY;
 int fd;

 if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1)
 return RC_do_ordinary_chown;

 if (! S_ISREG (orig_st->st_mode))
 {
 if (S_ISDIR (orig_st->st_mode))
 open_flags |= O_DIRECTORY;
 else
 return RC_do_ordinary_chown;
 }

 fd = openat (cwd_fd, file, O_RDONLY | open_flags);
 if (! (0 <= fd
 || (errno == EACCES && S_ISREG (orig_st->st_mode)
 && 0 <= (fd = openat (cwd_fd, file, O_WRONLY | open_flags))))))
 return (errno == EACCES ? RC_do_ordinary_chown : RC_error);

 if (fstat (fd, &st) != 0)
 status = RC_error;
 else if (! SAME_INODE (*orig_st, st))
 status = RC_inode_changed;
 else if ((required_uid == (uid_t) -1 || required_uid == st.st_uid)
 && (required_gid == (gid_t) -1 || required_gid == st.st_gid))
 {
 if (fchown (fd, uid, gid) == 0)
 {
 status = (close (fd) == 0
 ? RC_ok : RC_error);
 return status;
 }
 }
}
```

```

 }
else
 {
 status = RC_error;
 }
}

int saved_errno = errno;
close (fd);
errno = saved_errno;
return status;
}

/* Change the owner and/or group of the file specified by FTS and ENT
to UID and/or GID as appropriate.
If REQUIRED_UID is not -1, then skip files with any other user ID.
If REQUIRED_GID is not -1, then skip files with any other group ID.
CHOPT specifies additional options.
Return true if successful. */
static bool
change_file_owner (FTS *fts, FTSENT *ent,
 uid_t uid, gid_t gid,
 uid_t required_uid, gid_t required_gid,
 struct Chown_option const *chopt)
{
 char const *file_full_name = ent->fts_path;
 char const *file = ent->fts_accpath;
 struct stat const *file_stats;
 struct stat stat_buf;
 bool ok = true;
 bool do_chown;
 bool symlink_changed = true;

 switch (ent->fts_info)
 {
 {
 case FTS_D:
 if (chopt->recurse)
 {
 {
 if (ROOT_DEV_INO_CHECK (chopt->root_dev_ino, ent->fts_statp))
 {
 /* This happens e.g., with "chown -R --preserve-root 0/"
 and with "chown -RH --preserve-root 0 symlink-to-root". */
 ROOT_DEV_INO_WARN (file_full_name);
 /* Tell fts not to traverse into this hierarchy. */
 fts_set (fts, ent, FTS_SKIP);
 /* Ensure that we do not process "/" on the second visit. */
 ignore_value (fts_read (fts));
 return false;
 }
 }
 }
 }
 }

```

```

 }
 return true;
}
break;

case FTS_DP:
if (! chopt->recurse)
 return true;
break;

case FTS_NS:
/* For a top-level file or directory, this FTS_NS (stat failed)
 indicator is determined at the time of the initial fts_open call.
 With programs like chmod, chown, and chgrp, that modify
 permissions, it is possible that the file in question is
 accessible when control reaches this point. So, if this is
 the first time we've seen the FTS_NS for this file, tell
 fts_read to stat it "again". */
if (ent->fts_level == 0 && ent->fts_number == 0)
{
 ent->fts_number = 1;
 fts_set (fts, ent, FTS_AGAIN);
 return true;
}
if (! chopt->force_silent)
 error (0, ent->fts_errno, _("cannot access %s"),
 quote (file_full_name));
ok = false;
break;

case FTS_ERR:
if (! chopt->force_silent)
 error (0, ent->fts_errno, "%s", quote (file_full_name));
ok = false;
break;

case FTS_DNR:
if (! chopt->force_silent)
 error (0, ent->fts_errno, _("cannot read directory %s"),
 quote (file_full_name));
ok = false;
break;

case FTS_DC: /* directory that causes cycles */
if (cycle_warning_required (fts, ent))
{
 emit_cycle_warning (file_full_name);
 return false;
}

```

```

 }
 break;

default:
 break;
}

if (!ok)
{
 do_chown = false;
 file_stats = NULL;
}
else if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1
 && chopt->verbosity == V_off
 && ! chopt->root_dev_ino
 && ! chopt->affect_symlink_referent)
{
 do_chown = true;
 file_stats = ent->fts_statp;
}
else
{
 file_stats = ent->fts_statp;

 /* If this is a symlink and we're dereferencing them,
 stat it to get info on the referent. */
 if (chopt->affect_symlink_referent && S_ISLNK (file_stats->st_mode))
 {
 if (fstatat (fts->fts_cwd_fd, file, &stat_buf, 0) != 0)
 {
 if (! chopt->force_silent)
 error (0, errno, _("cannot dereference %s"),
 quote (file_full_name));
 ok = false;
 }

 file_stats = &stat_buf;
 }

 do_chown = (ok
 && (required_uid == (uid_t) -1
 || required_uid == file_stats->st_uid)
 && (required_gid == (gid_t) -1
 || required_gid == file_stats->st_gid));
}

/* This happens when chown -LR --preserve-root encounters a symlink-to-/. */
if (ok

```

```

 && FTSENT_IS_DIRECTORY (ent)
 && ROOT_DEV_INO_CHECK (chopt->root_dev_ino, file_stats))
{
 ROOT_DEV_INO_WARN (file_full_name);
 return false;
}

if (do_chown)
{
 if (! chopt->affect_symlink_referent)
 {
 ok = (lchownat (fts->fts_cwd_fd, file, uid, gid) == 0);

 /* Ignore any error due to lack of support; POSIX requires
 this behavior for top-level symbolic links with -h, and
 implies that it's required for all symbolic links. */
 if (!ok && errno == EOPNOTSUPP)
 {
 ok = true;
 symlink_changed = false;
 }
 }
 else
 {
 /* If possible, avoid a race condition with --from=O:G and without the
 (-h) --no-dereference option. If fts's stat call determined
 that the uid/gid of FILE matched the --from=O:G-selected
 owner and group IDs, blindly using chown(2) here could lead
 chown(1) or chgrp(1) mistakenly to dereference a *symlink*
 to an arbitrary file that an attacker had moved into the
 place of FILE during the window between the stat and
 chown(2) calls. If FILE is a regular file or a directory
 that can be opened, this race condition can be avoided safely. */

 enum RCH_status err
 = restricted_chown (fts->fts_cwd_fd, file, file_stats, uid, gid,
 required_uid, required_gid);
 switch (err)
 {
 case RC_ok:
 break;

 case RC_do_ordinary_chown:
 ok = (chownat (fts->fts_cwd_fd, file, uid, gid) == 0);
 break;

 case RC_error:
 ok = false;

```

```

 break;

 case RC_inode_changed:
 /* FIXME: give a diagnostic in this case? */
 case RC_excluded:
 do_chown = false;
 ok = false;
 break;

 default:
 abort ();
 }
}

/* On some systems (e.g., GNU/Linux 2.4.x),
the chown function resets the 'special' permission bits.
Do not restore those bits; doing so would open a window in
which a malicious user, M, could subvert a chown command run
by some other user and operating on files in a directory
where M has write access. */

if (do_chown && !ok && !chopt->force_silent)
 error (0, errno, (uid != (uid_t) -1
 ? _("changing ownership of %s")
 : _("changing group of %s")),
 quote (file_full_name));
}

if (chopt->verbosity != V_off)
{
 bool changed =
 ((do_chown && ok && symlink_changed)
 && !((uid == (uid_t) -1 || uid == file_stats->st_uid)
 && (gid == (gid_t) -1 || gid == file_stats->st_gid)));

 if (changed || chopt->verbosity == V_high)
 {
 enum Change_status ch_status =
 (!ok ? CH_FAILED
 : !symlink_changed ? CH_NOT_APPLIED
 : !changed ? CH_NO_CHANGE_REQUESTED
 : CH_SUCCEEDED);
 char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;
 char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;
 describe_change (file_full_name, ch_status,
 old_usr, old_grp,
 chopt->user_name, chopt->group_name);
 free (old_usr);
 }
}

```



```

 free (old_grp);
 }
}

if (! chopt->recurse)
 fts_set (fts, ent, FTS_SKIP);

return ok;
}

/* Change the owner and/or group of the specified FILES.
 BIT_FLAGS specifies how to treat each symlink-to-directory
 that is encountered during a recursive traversal.
 CHOPT specifies additional options.
 If UID is not -1, then change the owner id of each file to UID.
 If GID is not -1, then change the group id of each file to GID.
 If REQUIRED_UID and/or REQUIRED_GID is not -1, then change only
 files with user ID and group ID that match the non-(-1) value(s).
 Return true if successful. */
extern bool
chown_files (char **files, int bit_flags,
 uid_t uid, gid_t gid,
 uid_t required_uid, gid_t required_gid,
 struct Chown_option const *chopt)
{
 bool ok = true;

 /* Use lstat and stat only if they're needed. */
 int stat_flags = ((required_uid != (uid_t) -1 || required_gid != (gid_t) -1
 || chopt->affect_symlink_referent
 || chopt->verbosity != V_off)
 ? 0
 : FTS_NOSTAT);

 FTS *fts = xfts_open (files, bit_flags | stat_flags, NULL);

 while (1)
 {
 FTSENT *ent;

 ent = fts_read (fts);
 if (ent == NULL)
 {
 if (errno != 0)
 {
 /* FIXME: try to give a better message */
 if (! chopt->force_silent)
 error (0, errno, _("fts_read failed"));
 }
 }
 }
}

```

```
 ok = false;
 }
 break;
}

ok &= change_file_owner (fts, ent, uid, gid,
 required_uid, required_gid, chopt);
}

if (fts_close (fts) != 0)
{
 error (0, errno, _("fts_close failed"));
 ok = false;
}

return ok;
}
From RPM File Metadata:GPLv3+
```

# 1.167 x-sys 0.0.0-20210119212857- b64e53b001e4

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## 1.168 bouncy-castle 1.64

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</p>

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Organisations

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<ul>

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</li>

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<li><a href="https://www.coreinfrastructure.org/">Core Infrastructure Initiative</a> - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.</li>

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<p>

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- <li>Peter Knopp <pknopp@mtg.de> - fix for named curve recognition in ECGOST key generation.</li>
- <li>Jakub Gwozdz <gwozdziu@rpg.pl> - addition of getTsa() to TimeStampTokenInfo.</li>
- <li>Bartosz Malkowski <bmalkow@tigase.org> - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
- <li>Tal Yacobi <tal.yacobi@octavian-tech.com> - fix for issue in OpenPGP examples [#BJA-55].</li>
- <li>Massimiliano Ziccardi <massimiliano.ziccardi@gmail.com> - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>
- <li>Andrey Pavlenko <andrey.a.pavlenko@gmail.com> - security manager patch for PKCS1Encoding property check.</li>
- <li>J Ross Nicoll <jrn@jrn.me.uk> - improved exception handling for getInstance() in ASN.1 library.</li>
- <li>Matthew Stevenson <mavricknz@yahoo.com> - patch to constructor for CRMF CertSequence.</li>
- <li>Gabriele Contini <gcontini@hotpop.com> - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>
- <li>Roelof Naude <roelof.naude@epiuse.com> - patch for TLS client to send empty client certs in response to HP\_CERTIFICATE\_REQUEST.</li>
- <li>Patrick Peck <peck@signaturen.at> - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
- <li>Michael LeMay <lemaymd@lemaymd.com> - identified problem with EAX [#BJA-93].</li>
- <li>Alex Dupre <ale@FreeBSD.org> - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]</li>
- <li>Michael Schoene <michael@sigrid-und-michael.de> - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
- <li>Ion Larrañaga <ilarra@s21sec.com> - fix to default partial packet generation in BCPGOutputStream.</li>
- <li>Bob Kerns <bob.kerns@positscience.com> - fix to hashCode for X509CertificateObject.</li>
- <li>Stefan Meyer <stefan.meyer@ewe.de> - backport for PKIXCertPathValidator and

SMIMESignedMailReviewer.</li>  
<li>Robert J. Moore &lt;Robert.J.Moore&#064allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>  
<li>Rui Hodai &lt;ruir&#064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>  
<li>Emir Bucalovic &lt;emir.bucalovic&#064mail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>  
<li>Torbjorn Svensson &lt;tobbe79&#064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>  
<li>Paul FitzPatrick &lt;bouncycastle\_pfitz&#064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>  
<li>Henrik Andersson &lt;k.henrik.andersson&#064gmail.com&gt; addition of UniqueIssuerID to certificate generation.</li>  
<li>Cagdas Cirit &lt;cagdasirit&#064gmail.com&gt; subjectAlternativeName fix for x509CertStoreSelector.</li>  
<li>Harakiri &lt;harakiri\_23&#064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.</li>  
<li>Pedro Henriques &lt;pmahenriques&#064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEP encoding.</li>  
<li>Lothar Kimminger &lt;job&#064kimminger.de&gt; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.</li>  
<li>Richard Farr &lt;rfarr.se&#064gmail.com&gt; initial SRP-6a implementation.</li>  
<li>Thomas Castiglione &lt;castiglione&#064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.</li>  
<li>Elisabetta Romani &lt;eromani&#064sopei.it&gt; patch for recognising multiple counter signatures.</li>  
<li>Robin Lundgren &lt;r737lundgren&#064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.</li>  
<li>Petr Kadlec &lt;mormegil&#064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.</li>  
<li>Andreas Antener &lt;antener\_a&#064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>  
<li>Harendra Rawat &lt;hsrawat&#064yahoo.com&gt; fix for BERConstructedOctetString.</li>  
<li>Rolf Lindemann &lt;lindemann&#064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>  
<li>Alex Artamonov &lt;alexart.home&#064gmail.com&gt; name look up patch for GOST-2001 parameters.</li>  
<li>Mike Lyons &lt;mlyons&#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>  
<li>Chris Cole &lt;chris\_h\_cole&#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>  
<li>Tomas Krivanek &lt;tom&#064atack.cz&gt; added checking of Sender header to SignedMailValidator.</li>  
<li>Michael &lt;emfau&#064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>  
<li>Trevor Perrin &lt;trevor&#064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>  
<li>Markus Kil&aring;s &lt;markus&#064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>  
<li>Dario Novakovic &lt;darionis&#064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>  
<li>Michael Smith &lt;msmith&#064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>  
<li>Andrea Zilio &lt;andrea.zilio&#064gmail.com&gt; fix for PEM password encryption of private keys.</li>  
<li>Alex Birkett &lt;alex&#064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>  
<li>Wayne Grant &lt;waynedgrant&#064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.</li>

- <li>Frank Cornelis &lt;info@#064frankcornelis.be&gt; additional support classes for CADES, enhancements to OCSP classes.</li>
- <li>Jan Dittberner &lt;jan@#064dittberner.info&gt; addHeader patch for SMIME generator.</li>
- <li>Bob McGowan &lt;boab.mcgoo@#064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>
- <li>Ivo Matheis &lt;i.matheis@#064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>
- <li>Marco Sandrini &lt;nessche@#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li>
- <li>Alf Malf &lt;alfilmalf@#064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>
- <li>Alfonso Massa &lt;alfonso.massa@#064insiel.it&gt; contributions to CMS time stamp classes.</li>
- <li>Giacomo Boccardo &lt;gboccardo@#064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>
- <li>Arnis Tartu &lt;arnis@#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
- <li>Janusz Sikocinski &lt;J.Sikocinski@#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li>
- <li>Juri Hudolejev &lt;jhudolejev@#064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
- <li>Liane Velten &lt;liane.velten@#064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>
- <li>Shawn Willden &lt;swillden@#064google.com&gt; additional functionality to PGPKeyRing.</li>
- <li>Atanas Krachev &lt;akrachev@#064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
- <li>Mickael Laiking &lt;mickael.laiking@#064keynectis.com&gt; initial cut of EAC classes.</li>
- <li>Tim Bukt &lt;tbukt@#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
- <li>Bernd &lt;rbernd@#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
- <li>Steing Inge Morisbak &lt;stein.inge.morisbak@#064BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li>
- <li>Andreas Schmid &lt;andreas.schmid@#064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.</li>
- <li>Phil Steitz &lt;phil.steitz@#064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
- <li>Ignat Korchagin &lt;ignat.korchagin@#064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
- <li>Petar Petrov &lt;p.petrov@#064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>
- <li>Daniel Fitzpatrick &lt;daniel.f.nwr@#064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>
- <li>Andy Neilson &lt;Andy.Neilson@#064quest.com&gt;a further patches to deal with multiple providers and PEMReader.</li>
- <li>Ted Shaw &lt;xiao.xj@#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
- <li>Eleriseth &lt;Eleriseth@#064WPECGLtYbVi8Rl6Y7Vzl2Lv2EUUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibilty generalisations for EC operations.</li>
- <li>Kenny Root &lt;kenny@#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
- <li>Maarten Bodewes &lt;maarten.bodewes@#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
- <li>Philip Clay &lt;pilf\_b@#064yahoo.com&gt; Initial implementation of J-PAKE.</li>
- <li>Brian Carlstrom &lt;bdc@#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1

SecretKeyFactory.</li>  
<li>Samuel Lid&eacute;n Borell &lt;samuel&#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder</li>  
<li>Sergio Demian Lerner &lt;sergiolerner&#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.</li>  
<li>Tim Whittington &lt;Tim.Whittington&#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.</li>  
<li>Marcus Lundblad &lt;marcus.lundblad&#064primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>  
<li>Andrey Zhozhin &lt;zhozhin&#064xrm.ru&gt; patch for override of TSP SignerInfo attributes.</li>  
<li>Sergey Tiunov &lt;t5555d&#064gmail.com&gt; initial cut of DVCS classes.</li>  
<li>Damian Kolasa &lt;fatfredyy&#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.</li>  
<li>Ash Hughes &lt;ashley.hughes&#064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>  
<li>Daniel Hirscher &lt;dev&#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.</li>  
<li>Daniele Ricci &lt;daniele.athome&#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.</li>  
<li>Matti Aarnio &lt;matti.aarnio&#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.</li>  
<li>Babak Najafi &lt;bnajafi&#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.</li>  
<li>Eric M&uuml;ller &lt;eric.mueller&#064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>  
<li>Mathias Herberts &lt;Mathias.Herberts&#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>  
<li>Daniil Ivanov &lt;daniil.ivanov&#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>  
<li>Daniele Grasso &lt;daniele.grasso86&#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>  
<li>Andrey Utkin &lt;cindrhc&#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>  
<li>Arnis Tartu &lt;arnis&#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>  
<li>AxelVDB &lt;axel-vdb&#064riseup.net&gt; initial implementation of Shacal2.</li>  
<li>Roberto Tyley &lt;&gt; further work on completing gradle build.</li>  
<li>Waldemar Dick &lt;wdick&#064devmue.de&gt; code improvement in x500 ASN.1 package.</li>  
<li>Sid Steward &lt;sid.steward&#064pdflabs.com&gt; code improvements to ASN1Boolean.</li>  
<li>Alex Klyubin &lt;klyubin&#064google.com&gt; AlgorithmParameters check for EC key agreement.</li>



- <li>Jonathan Gillett &lt;gsoc.student@gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
- <li>Andreas Reiter &lt;andreas.reiter@iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
- <li>Kieran Miller &lt;kieran.miller@gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
- <li>Oliver Ehli&lt;ehli@arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
- <li>Daniel Heldt&lt;Daniel.Heldt@cryptovision.com&gt; Initial support for encodable state message digests</li>
- <li>Robert Bushman &lt;bouncycastle@traxel.com&gt; Clean up of DirectKeySignature example.</li>
- <li>Maurice Aarts&lt;aarts@riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
- <li>Franziskus Kiefer&lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>
- <li>KB Sriram&lt;mail\_kb@yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
- <li>Marco Schulze&lt;marco@nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
- <li>Martin Schaef&lt;https://github.com/martinschaef&gt; contributed a code-cleanup patch.</li>
- <li>dstutz&lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
- <li>Tobias Wich&lt;tobias.wich@ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
- <li>Hauke Mehrstens&lt;hauke@hauke-m.de&gt; TLS patch to add ECDHE\_ECDSA CCM ciphersuites from RFC 7251.</li>
- <li>Daniel Zimmerman&lt;dmz@galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
- <li>Jens Kapitza&lt;j.kapitza@schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
- <li>Johan Eklund&lt;johan@primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
- <li>nikosn&lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
- <li>Axel von dem Bruch &lt;axel-vdb@riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
- <li>Derek Atkins &lt;derek@ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
- <li>Peter Jr Halicky &lt;peto@halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
- <li>IartiguePierre&lt;https://github.com/IartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>
- <li>Thomas Belot&lt;thomas.belot+BC@gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>
- <li>Rich DiCroce&lt;https://github.com/rdicroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
- <li>Bj&ouml;rjn Kautler&lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>
- <li>Dominik Sch&uuml;rmann&lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
- <li>Michael &lt;MSKnete@web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>
- <li>Tobias Wagner &lt;tobias.wagner@n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>

- <li>Sergio Giro &lt;sgiro@#064google.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>
- <li>bschuette&lt;https://github.com/bschuette&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
- <li>Leonard Dallot&lt;https://github.com/dalotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
- <li>Jan Willem Janssen &lt;j.w.janssen@bouncycastle.org&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
- <li>Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.</li>
- <li>Kai Kramer &lt;kai.kramer@#064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
- <li>Benoit Charles &lt;benoit.charles@#064opentrust.com&gt; Fix for IES data length check on decryption.</li>
- <li>Niko &lt;nink95@#064gmail.com&gt; fix to cast issue in getOutputSize() for ECIES.</li>
- <li>akwizgran&lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.</li>
- <li>Matthias Edelhoff &lt;Matthias.Edelhoff@#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
- <li>Lukasz Deputat &lt;lukasz.deputat@#064gmail.com&gt; Fixed bugs in TlsUtils read methods [#BJA-592].</li>
- <li>Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>
- <li>Andr e Berenguel &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>
- <li>Slawomir Jaranowski&lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
- <li>Andrey Vasilyev&lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>
- <li>William Glanton &lt;wglanton77@#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].</li>
- <li>jdvorak001&lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>
- <li>Joseph Naegele &lt;jnaegele@#064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
- <li>Andrew Bonventre&lt;https://github.com/andybons&gt; NullPointer patch for WNAFUtil.</li>
- <li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>
- <li>Gorka Irazoqui &lt;girazoki@#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>
- <li>Joerg Senekowitsch &lt;joerg.senekowitsch@#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
- <li>Alexandr Krivoshta &lt;wipe@#064ya.ru&gt; N4 calculation fix to GOFB mode.</li>
- <li>Artem Storozhuk &lt;storajs72@#064gmail.com&gt; N4 calculation fix to GOFB mode.</li>
- <li>Na Yu &lt;na.yu@#064samsung.com&gt; Constructor patches to CMC PKIData.</li>
- <li>Evangelos Karatsiolis &lt;ekaratsiolis@#064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
- <li>VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>
- <li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>
- <li>Anders Schack-Mulligen &lt;https://github.com/aschackmull&gt; code cleanups for CMSSignedDataParser,</li>

BrokenKDF2BytesGenerator.</li>  
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de>; Initial XMSS/XMSS-MT implementation.</li>  
<li>didisoft &lt;https://github.com/didisoft>; test code for PGP signature removal involving user ids.</li>  
<li>Mike Safonov&lt;https://github.com/MikeSafonov>; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>  
<li>Artem Storozhuk &lt;storojs72@gmail.com>; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>  
<li>Andreas Glaser &lt;andreas.glaser@gi-de.com>; patch to recognise ANSSI curves for PKCS#10 requests.</li>  
<li>codeborne &lt;https://github.com/cbxp>; patch to correct OIDs used in public key digest parameters for ECGOST-2012.</li>  
<li>FauxFaux &lt;https://github.com/FauxFaux>; patch for JDK 1.9 update to DRBG.java.</li>  
<li>4garbage &lt;https://github.com/4garbage>; patch to allow GOST3410-94 private keys encoded as integers.</li>  
<li>ekszz &lt;https://github.com/ekszz>; corrections to SM2 signer to include default identity value.</li>  
<li>jminer &lt;https://github.com/jminer>; fix to Blake2b for hashes in range of 2\*\*64-127 to 2\*\*64.</li>  
<li>str4d &lt;https://github.com/str4d>; initial implementation of Blake2s</li>  
<li>Scott Woodward &lt;scott@bit3consulting.com>; performance fixes for CTRSP800DRBG.</li>  
<li>David Strawn &lt;https://github.com/isomarcate>; fix for off by one error in SCRYPT bounds checking.</li>  
<li>chris mccown &lt;0xchrismccown@gmail.com>; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>  
<li>ZZMarquis &lt;https://github.com/ZZMarquis>; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>  
<li>Andreas Kretschmer &lt;https://github.com/Akretsch>; NPE fix for CertTemplate.getVersion().</li>  
<li>Armin Lunkeit, Michael Tautenhahn &lt;>; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>  
<li>Vincent Breitmoser &lt;https://github.com/Valodim>; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>  
<li>Adam Vartanian &lt;https://github.com/flooey>; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>  
<li>Bernd &lt;https://github.com/ecki>; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.</li>  
<li>Shartung &lt;https://github.com/shartung>; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>  
<li>Paul Schaub &lt;https://github.com/vanitasvitae>; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>  
<li>Nick of Nexsar &lt;https://github.com/nros>; update to OpenPGP package to handle a broader range of EC curves.</li>  
<li>catbref &lt;https://github.com/catbref>; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>  
<li>gerlion &lt;https://github.com/gerlion>; detection of concurrency issue with pre-1.60 EC math library.</li>  
<li>fgrieu &lt;fgrieu@gmail.com>; identification and suggested fixes for possible timing vulnerability in OAEP encoding and RSACoreEngine.</li>  
<li>MTG &lt;https://github.com/mtgag>; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>

- <li>Andreas Gadermaier &lt;up.gadermaier&#064gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>
- <li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>
- <li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>
- <li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>
- <li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>
- <li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>
- <li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>
- <li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>
- <li>Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.</li>
- <li>Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.</li>
- <li>Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.</li>
- <li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.</li>
- <li>Moses Palm&eacute;r, TrueSec &lt;Henrik.Palmer&#064truesec.se&gt; Additional improvements to constant time comparisons.</li>
- <li>Ren&eacute; Korthaus&lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.</li>
- <li>THausherr&lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.</li>
- <li>Gaylor Bosson&lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.</li>
- <li>gaellalire&lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.</li>
- <li>im-scooter&lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.</li>
- <li>Nick hitchan&lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
- <li>dbusche&lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>
- <li>Daniel Heldt&lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>
- <li>Ugochukwu Mmaduekwe&lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>
- <li>Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>
- <li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.</li>
- <li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
- <li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
- <li>Tobias Ospelt &gt;tobias&#064pentagrid.ch&lt; Identification of 1.63 regression in ASN.1 parsing.</li>

</ul>

</body>

</html>

# 1.169 libuser 0.60 9.e17

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com.fasterxml.jackson.dataformat.smile.SmileFactory

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## 1.172 quota 4.01-19.el7

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.\"  
.\" @(#)quotas.ms 6.3 (Berkeley) 4/17/91  
.\"  
.EH 'SMM:4-% "Disc Quotas in a \s-2UNIX\s+2 Environment'  
.OH 'Disc Quotas in a \s-2UNIX\s+2 Environment"SMM:4-%'  
.ND 5th July, 1983  
.TL  
Disc Quotas in a \s-2UNIX\s+2\s-3\u\*\d\s0 Environment  
.FS  
\* UNIX is a trademark of Bell Laboratories.  
.FE  
.AU  
Robert Elz  
.AI  
Department of Computer Science  
University of Melbourne,  
Parkville,  
Victoria,  
Australia.  
.AB  
.PP  
In most computing environments, disc space is not  
infinite.  
The disc quota system provides a mechanism  
to control usage of disc space, on an  
individual basis.  
.PP  
Quotas may be set for each individual user, on any, or  
all filesystems.  
.PP  
The quota system will warn users when they  
exceed their allotted limit, but allow some  
extra space for current work.  
Repeatedly remaining over quota at logout,



will cause a fatal over quota condition eventually.

.PP

The quota system is an optional part of  
s-2VMUNIX\0 that may be included when the  
system is configured.

.AE

.NH 1

Users' view of disc quotas

.PP

To most users, disc quotas will either be of no concern,  
or a fact of life that cannot be avoided.

The

\fquota\fp\1)

command will provide information on any disc quotas  
that may have been imposed upon a user.

.PP

There are two individual possible quotas that may be  
imposed, usually if one is, both will be.

A limit can be set on the amount of space a user  
can occupy, and there may be a limit on the number  
of files (inodes) he can own.

.PP

.I Quota

provides information on the quotas that have  
been set by the system administrators, in each  
of these areas, and current usage.

.PP

There are four numbers for each limit, the current  
usage, soft limit (quota), hard limit, and number  
of remaining login warnings.

The soft limit is the number of 1K blocks (or files)  
that the user is expected to remain below.

Each time the user's usage goes past this limit,  
he will be warned.

The hard limit cannot be exceeded.

If a user's usage reaches this number, further  
requests for space (or attempts to create a file)  
will fail with an EDQUOT error, and the first time  
this occurs, a message will be written to the user's  
terminal.

Only one message will be output, until space occupied  
is reduced below the limit, and reaches it again,  
in order to avoid continual noise from those  
programs that ignore write errors.

.PP

Whenever a user logs in with a usage greater than  
his soft limit, he will be warned, and his login  
warning count decremented.

When he logs in under quota, the counter is reset to its maximum value (which is a system configuration parameter, that is typically 3).

If the warning count should ever reach zero (caused by three successive logins over quota), the particular limit that has been exceeded will be treated as if the hard limit has been reached, and no more resources will be allocated to the user.

The `\fBonly\fP` way to reset this condition is to reduce usage below quota, then log in again.

.NH 2

Surviving when quota limit is reached

.PP

In most cases, the only way to recover from over quota conditions, is to abort whatever activity was in progress on the filesystem that has reached its limit, remove sufficient files to bring the limit back below quota, and retry the failed program.

.PP

However, if you are in the editor and a write fails because of an over quota situation, that is not a suitable course of action, as it is most likely that initially attempting to write the file will have truncated its previous contents, so should the editor be aborted without correctly writing the file not only will the recent changes be lost, but possibly much, or even all, of the data that previously existed.

.PP

There are several possible safe exits for a user caught in this situation.

He may use the editor `\fB!\fP` shell escape command to examine his file space, and remove surplus files.

Alternatively, using `\fIcsh\fP`, he may suspend the editor, remove some files, then resume it.

A third possibility, is to write the file to some other filesystem (perhaps to a file on /tmp) where the user's quota has not been exceeded.

Then after rectifying the quota situation, the file can be moved back to the filesystem it belongs on.

.NH 1

Administering the quota system

.PP

To set up and establish the disc quota system, there are several steps necessary to be performed by the system administrator.

.PP

First, the system must be configured to include the disc quota sub-system.

This is done by including the line:

.DS

options QUOTA

.DE

in the system configuration file, then running

`\fIconfig\fP\|(8)`

followed by a system configuration `\s-3\u*\d\s0`.

.FS

\* See also the document ``Building 4.2BSD UNIX Systems with Config''.

.FE

.PP

Second, a decision as to what filesystems need to have quotas applied needs to be made.

Usually, only filesystems that house users' home directories, or other user files, will need to be subjected to the quota system, though it may also prove useful to also include `\fB/usr\fR`.

If possible, `\fB/tmp\fP` should usually be free of quotas.

.PP

Having decided on which filesystems quotas need to be set upon, the administrator should then allocate the available space amongst the competing needs. How this should be done is (way) beyond the scope of this document.

.PP

Then, the

`\fledquota\fP\|(8)`

command can be used to actually set the limits desired upon each user. Where a number of users are to be given the same quotas (a common occurrence) the `\fB\-p\fP` switch to `edquota` will allow this to be easily accomplished.

.PP

Once the quotas are set, ready to operate, the system must be informed to enforce quotas on the desired filesystems.

This is accomplished with the

`\fIquotaon\fP\|(8)`

command.

.I Quotaon

will either enable quotas for a particular filesystem, or with the `\fB\-a\fP` switch, will enable quotas for each filesystem indicated in `\fB/etc/fstab\fP` as using quotas.

See

`\fIfstab\fP\|(5)`

for details.

Most sites using the quota system, will include the

line

.DS C

/etc/quotaon -a

.DE

in `\fB/etc/rc.local\fP`.

.PP

Should quotas need to be disabled, the

`\fIquotaoff\fP(8)`

command will do that, however, should the filesystem be about to be dismounted, the

`\fIumount\fP(8)`

command will disable quotas immediately before the filesystem is unmounted.

This is actually an effect of the

`\fIumount\fP(2)`

system call, and it guarantees that the quota system

will not be disabled if the unmount would fail

because the filesystem is not idle.

.PP

Periodically (certainly after each reboot, and when quotas are first enabled for a filesystem), the records retained in the quota file should be checked for consistency with the actual number of blocks and files allocated to the user.

The

`\fIquotacheck\fP(8)`

command can be used to accomplish this.

It is not necessary to dismount the filesystem, or disable the quota system to run this command, though on active filesystems inaccurate results may occur.

This does no real harm in most cases, another run of

`\fIquotacheck`

when the filesystem is idle will certainly correct any inaccuracy.

.PP

The super-user may use the

`\fIquota\fP(1)`

command to examine the usage and quotas of any user, and the

`\fIrepquota\fP(8)`

command may be used to check the usages and limits for all users on a filesystem.

.NH 1

Some implementation detail.

.PP

Disc quota usage and information is stored in a file on the filesystem that the quotas are to be applied to.

Conventionally, this file is `\fBquotas\fR` in the root of the filesystem.

While this name is not known to the system in any way, several of the user level utilities "know" it, and

choosing any other name would not be wise.

.PP

The data in the file comprises an array of structures, indexed by uid, one structure for each user on the system (whether the user has a quota on this filesystem or not).

If the uid space is sparse, then the file may have holes in it, which would be lost by copying, so it is best to avoid this.

.PP

The system is informed of the existence of the quota file by the

```
\fIsetquota\fP\|(2)
```

system call.

It then reads the quota entries for each user currently active, then for any files open owned by users who are not currently active.

Each subsequent open of a file on the filesystem, will be accompanied by a pairing with its quota information.

In most cases this information will be retained in core, either because the user who owns the file is running some process, because other files are open owned by the same user, or because some file (perhaps this one) was recently accessed.

In memory, the quota information is kept hashed by user-id and filesystem, and retained in an LRU chain so recently released data can be easily reclaimed.

Information about those users whose last process has recently terminated is also retained in this way.

.PP

Each time a block is accessed or released, and each time an inode is allocated or freed, the quota system gets told about it, and in the case of allocations, gets the opportunity to object.

.PP

Measurements have shown

that the quota code uses a very small percentage of the system cpu time consumed in writing a new block to disc.

.NH 1

Acknowledgments

.PP

The current disc quota system is loosely based upon a very early scheme implemented at the University of New South Wales, and Sydney University in the mid 70's. That system implemented a single combined limit for both files and blocks on all filesystems.

.PP

A later system was implemented at the University of Melbourne by the author, but was not kept highly accurately, eg:

chown's (etc) did not affect quotas, nor did i/o to a file other than one owned by the instigator.

.PP

The current system has been running (with only minor modifications) since January 82 at Melbourne.

It is actually just a small part of a much broader resource control scheme, which is capable of controlling almost anything that is usually uncontrolled in unix. The rest of this is, as yet, still in a state where it is far too subject to change to be considered for distribution.

.PP

For the 4.2BSD release, much work has been done to clean up and sanely incorporate the quota code by Sam Leffler and Kirk McKusick at The University of California at Berkeley.

Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/doc/quotas.ms

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\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/pot.po

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mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotaon.c  
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mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotaops.c

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/\*

\* QUOTA An implementation of the diskquota system for the LINUX operating  
\* system. QUOTA is implemented using the BSD syscall interface  
\* as the means of communication with the user level. Should work for  
\* all filesystems because of integration into the VFS layer of the  
\* operating system. This is based on the Melbourne quota system which  
\* uses both user and group quota files.

\*

\* Program to mail to users that they are over their quota.

\*

\* Author: Marco van Wieringen <mvw@planets.elm.net>

\*

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\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-

mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/warnquota.c

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Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/xqmstats.8

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotastats.8

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mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quot.h  
\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-  
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quot.c  
No license file was found, but licenses were detected in source scan.

```
/*
 * QUOTA An implementation of the diskquota system for the LINUX operating
 * system. QUOTA is implemented using the BSD syscall interface
 * as the means of communication with the user level. Should work for
 * all filesystems because of integration into the VFS layer of the
 * operating system. This is based on the Melbourne quota system wich
 * uses both user and group quota files.
 *
 * Program to query for the internal statistics.
 *
 * Author: Marco van Wieringen <mvw@planets.elm.net>
 *
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 */
```

Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-  
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quotastats.c  
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02111-1307 USA. \*/

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\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-

mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/svc\_socket.c

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

/\*

\* QUOTA An implementation of the diskquota system for the LINUX operating  
\* system. QUOTA is implemented using the BSD syscall interface  
\* as the means of communication with the user level. Should work for  
\* all filesystems because of integration into the VFS layer of the  
\* operating system. This is based on the Melbourne quota system which  
\* uses both user and group quota files.

\*

\* Rquota service handlers.

\*

\* Author: Marco van Wieringen <mvw@planets.elm.net>  
\* changes for new utilities by Jan Kara <jack@suse.cz>  
\* patches by Jani Jaakkola <jjaakkol@cs.helsinki.fi>

\*

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mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/rquota\_svc.c

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

/\*

\* A daemon to read quota warning messages from the kernel netlink socket  
\* and either pipe them to the system DBUS or write them to user's console

\*

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mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/quota\_nld.c

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```
/*
* QUOTA An implementation of the diskquota system for the LINUX
* operating system. QUOTA is implemented using the BSD syscall
* interface as the means of communication with the user level.
* Should work for all filesystems because of integration into the
* VFS layer of the operating system.
* This is based on the Melbourne quota system wich uses both user and
* group quota files.
*
* This part does the rpc-communication with the rquotad.
*
* Author: Marco van Wieringen <mvw@planets.elm.net>
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/rquota_client.c
```

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Found in path(s):

```
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mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/po/cs.po
```

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```
* /opt/cola/permits/1008492310_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-
mSjAC3Ah/quota.spec
```

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# Options to pass to rpc.rquotad daemon. See rpc.rquotad(8) manual page for  
# more details.

# -I, --autofs Ignore autofs mount points

# -p port, --port port Listen on alternative port

# -s, --no-setquota Don't allow setting quotas with RPC (default)

# -S, --setquota Allow setting quotas with RPC

# -x path, --xtab path Use alternative NFSD export table

RPCRQUOTADOPTS=""

Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/rpc-rquotad.sysconfig

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/\*

\* QUOTA An implementation of the diskquota system for the LINUX  
\* operating system. QUOTA is implemented using the BSD syscall  
\* interface as the means of communication with the user level.  
\* Should work for all filesystems because of integration into the  
\* VFS layer of the operating system.  
\* This is based on the Melbourne quota system wich uses both user and  
\* group quota files.

\*

\* This part does the lookup of the info.

\*

\* Author: Marco van Wieringen <mvw@planets.elm.net>

\*

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\*/

Found in path(s):

\* /opt/cola/permits/1008492310\_1654022960.128266/0/quota-4.01-19.el7.src.rpm-cosi-expand-archive-mSjAC3Ah/quota-4.01.tar.gz-cosi-expand-archive-IWNY6D5A/quota-tools/rquota\_server.c

# 1.173 tdb 1.42.9

## 1.173.1 Available under license :

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## 1.174 linux-kernel 3.10.0-1160.62.1.el7

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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.]

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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 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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END OF TERMS AND CONDITIONS

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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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(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 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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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

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\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that

process, the shell script was created.

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```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- Id -->

<!-- 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, '
'))"/>
 <xsl:text>
</xsl:text>
 <xsl:variable name="rest" select="substring-after($text, '
')"/>
 <xsl:if test="translate($rest, '	 ', '')">
 <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="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:

- mode: sgml

- End:

-->

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\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/ZigZagEncoding.java

\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/HistogramLogReader.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoublePercentileIterator.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleHistogramIterationValue.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleHistogram.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/HistogramIterationValue.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/AllValuesIterator.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleLinearIterator.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Histogram.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/AbstractHistogram.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/ConcurrentHistogram.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Version.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/Recorder.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleRecordedValuesIterator.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/LogarithmicIterator.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/HistogramLogProcessor.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/SingleWriterDoubleRecorder.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/AbstractHistogramIterator.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleAllValuesIterator.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/IntCountsHistogram.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/SynchronizedDoubleHistogram.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/PercentileIterator.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/SingleWriterRecorder.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/ConcurrentDoubleHistogram.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/SynchronizedHistogram.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/DoubleLogarithmicIterator.java  
\* /opt/cola/permits/174180979\_1651176763.07/0/hdrhistogram-2-1-9-sources-

```
jar/org/HdrHistogram/AbstractHistogramLogReader.java
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/LinearIterator.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* package-info.java
* Written by Gil Tene of Azul Systems, and released to the public domain,
* as explained at http://creativecommons.org/publicdomain/zero/1.0/
*/
```

```
Found in path(s):
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-jar/org/HdrHistogram/package-
info.java
No license file was found, but licenses were detected in source scan.
```

```
/**
* Written by Gil Tene of Azul Systems, and released to the public domain,
* as explained at http://creativecommons.org/publicdomain/zero/1.0/
*
* @author Gil Tene
*/
```

```
package org.HdrHistogram;
```

```
final class Version {
 public static final String version="$VERSION$";
 public static final String build_time="$BUILD_TIME$";
}
```

```
Found in path(s):
* /opt/cola/permits/174180979_1651176763.07/0/hdrhistogram-2-1-9-sources-
jar/org/HdrHistogram/Version.java.template
```

# 1.180 u-root 7.0.0+incompatible

## 1.180.1 Available under license :

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# 1.188 chardet 2.2.1

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Version 2.1, February 1999

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# 1.189 libunistring 0.9.3 9.e17

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```
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```

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```
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```

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This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample
```

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## 1.194 lang-tag 1.4.4

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```
/*
* lang-tag
*
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*/
```

Found in path(s):

```
* /opt/cola/permits/1136256579_1613723575.96/0/lang-tag-1-4-4-sources-2-
jar/com/nimbusds/langtag/LangTag.java
* /opt/cola/permits/1136256579_1613723575.96/0/lang-tag-1-4-4-sources-2-
jar/com/nimbusds/langtag/ReadOnlyLangTag.java
* /opt/cola/permits/1136256579_1613723575.96/0/lang-tag-1-4-4-sources-2-jar/com/nimbusds/langtag/package-
info.java
* /opt/cola/permits/1136256579_1613723575.96/0/lang-tag-1-4-4-sources-2-
jar/com/nimbusds/langtag/LangTagUtils.java
* /opt/cola/permits/1136256579_1613723575.96/0/lang-tag-1-4-4-sources-2-
jar/com/nimbusds/langtag/LangTagException.java
```

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Found in path(s):

\* /opt/cola/permits/1136256579\_1613723575.96/0/lang-tag-1-4-4-sources-2-jar/META-INF/maven/com.nimbusds/lang-tag/pom.xml

# 1.195 airline 0.6

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# 1.196 e2fsprogs 1.42.9-19.el7

## 1.196.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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```
#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(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)

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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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

- Unix SMB/CIFS implementation.  
+ trivial database library - standalone version

- trivial database library - private includes

-

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Theodore Ts'o  
23-June-2007

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```
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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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That's all there is to it!

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

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

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## 1.199 lvm2 2.02.187-6.el7

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

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`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`  
`analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

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### Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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```
/*
 * imap_gssapi.c is partially derived from sample code in:
 * GSS-API Programming Guide
 * Part No: 816-1331-11
 * Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.
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```

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Network Working Group     H. Krawczyk  
Request for Comments: 2104     IBM  
Category: Informational     M. Bellare  
                                UCSD  
                                R. Canetti  
                                IBM  
                                February 1997

#### HMAC: Keyed-Hashing for Message Authentication

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#### Appendix -- Sample Code

Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimetools/cmsutil.c. Therefore:

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# 1.213 vim 7.4.629-7.e17

## 1.213.1 Available under license :

\*uganda.txt\* For Vim version 7.4. Last change: 2013 Jul 06

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 ===

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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

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- 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.
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- 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.

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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

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==== 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](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)  
The e-mail address for sending the money to is:  
[Bram@iccf-holland.org](mailto: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:ft=help:norl:

/\*

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\*/

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# 1.214 trousers 0.3.14 2.e17

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## 1.215 cryptsetup 2.0.3 6.e17

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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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## 1.217 libice 1.0.9-9.el7

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```
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```

```
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```

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```

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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## 1.220 opensaml-saml-impl 3.4.5

### 1.220.1 Available under license :

Apache License

Version 2.0, January 2004

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Found in path(s):

\* /opt/cola/permits/1201036694\_1631045807.74/0/bcpg-fips-1-0-4-sources-1-  
jar/org/bouncycastle/apache/bzip2/CBZip2InputStream.java  
\* /opt/cola/permits/1201036694\_1631045807.74/0/bcpg-fips-1-0-4-sources-1-  
jar/org/bouncycastle/apache/bzip2/CBZip2OutputStream.java  
\* /opt/cola/permits/1201036694\_1631045807.74/0/bcpg-fips-1-0-4-sources-1-  
jar/org/bouncycastle/apache/bzip2/CRC.java  
\* /opt/cola/permits/1201036694\_1631045807.74/0/bcpg-fips-1-0-4-sources-1-  
jar/org/bouncycastle/apache/bzip2/BZip2Constants.java

## 1.223 vim 7.4.629-8.e17\_9

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\*uganda.txt\* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

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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.

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 <maintainer@vim.org>

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- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

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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. Further more, 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](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:ft=help:norl:

/\*

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## 1.224 libdrm 2.4.97-2.el7

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## 1.225 sudo 1.8.23-10.el7\_9.2



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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  
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  
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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  
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  
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  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell  
Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew

Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
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:

Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
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Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen



Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarer, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
Taniguchi, Yasuaki  
Tomat, Fbio  
r, Balzs  
Uranga, Mikel Olasagasti  
Vorotnikov, Artem  
Wang, Wylmer

## 1.226 super-csv 2.4.0

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*/
```

Found in path(s):

```
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-
```

jar/org/supercsv/cellprocessor/ParseEnum.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/io/AbstractCsvReader.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/exception/SuperCsvReflectionException.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/quote/NormalQuoteMode.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/exception/package-  
info.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/cellprocessor/HashMapMapper.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/cellprocessor/constraint/StrMinMax.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/cellprocessor/ParseBool.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/cellprocessor/Token.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/CsvMapReader.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/CsvMapWriter.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/util/Util.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/comment/package-  
info.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/cellprocessor/ift/BoolCellProcessor.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/util/ThreeDHashMap.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvWriter.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/package-  
info.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/cellprocessor/ift/DateCellProcessor.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/Tokenizer.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/io/ICsvBeanReader.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/cellprocessor/ParseLong.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvReader.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/cellprocessor/constraint/Equals.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/exception/SuperCsvException.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/cellprocessor/constraint/RequireHashCode.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/cellprocessor/ParseInt.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-  
jar/org/supercsv/cellprocessor/constraint/UniqueHashCode.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-

jar/org/supercsv/encoder/SelectiveCsvEncoder.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/AbstractCsvWriter.java  
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\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/Unique.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvBeanWriter.java  
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\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/encoder/CsvEncoder.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/exception/SuperCsvConstraintViolationException.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/comment/CommentStartsWith.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/prefs/CsvPreference.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/util/BeanInterfaceProxy.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/comment/CommentMatches.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ift/StringCellProcessor.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/FmtBool.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/CsvBeanReader.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/NotNull.java  
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\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/IsElementOf.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/Strlen.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/CsvListWriter.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/Trim.java

\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvResultSetWriter.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvListWriter.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/FmtDate.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ParseChar.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/quote/AlwaysQuoteMode.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/Collector.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/util/MethodCache.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/AbstractTokenizer.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/package-info.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ift/CellProcessor.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/DMinMax.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ift/DoubleCellProcessor.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/CsvListReader.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/encoder/package-info.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ift/LongCellProcessor.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/util/ReflectionUtils.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/StrReplace.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ITokenizer.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ift/package-info.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/LMinMax.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ConvertNullTo.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ParseDouble.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/exception/SuperCsvCellProcessorException.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/Truncate.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/encoder/DefaultCsvEncoder.java  
\* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/StrRegex.java

- \* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ParseBigDecimal.java
- \* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/util/package-info.java
- \* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/RequireSubStr.java
- \* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/ForbidSubStr.java
- \* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/prefs/package-info.java
- \* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/Optional.java
- \* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/comment/CommentMatcher.java
- \* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/util/TwoDHashMap.java
- \* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/CsvResultSetWriter.java
- \* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/StrNotNullOrEmpty.java
- \* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/util/CsvContext.java
- \* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/quote/package-info.java
- \* /opt/cola/permits/1001043329\_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/package-info.java

# 1.227 sqlite 3.7.17 8.el7\_7.1

## 1.227.1 Available under license :

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\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite.spec

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application is free to use the same <a href="#sqlite3">database connection</a> or the

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is free to use SQLite from multiple threads, but it must make sure

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<a href="copyright.html">public domain</a> and so many groups use SQLite

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<p>SQLite itself is in the <a href="copyright.html">public domain</a> and can be used for any purpose. But TH3 is proprietary and requires a license.

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procset Adobe\_CoolType\_Utility\_MAKEOCF 1.23 0

procset Adobe\_CoolType\_Utility\_T42 1.0 0

procset Adobe\_AGM\_Image 1.0 0

Found in path(s):

\* %%BeginResource

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```

2012 May 21
#
The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:
#
May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.
#
NB: Portions of this file are extracted from open-source projects
covered by permissive licenses. Use of this file for testing is clearly
allowed. However, do not incorporate the text of this one file into
end-products without checking the licenses on the open-source projects
from which this code was extracted. This warning applies to this one
file only - not the bulk of the SQLite source code and tests.
#
#*****
#
This file contains large and complex schemas obtained from open-source
software projects. The schemas are parsed just to make sure that nothing
breaks in the parser logic.
#
These tests merely verify that the parse occurs without error.
No attempt is made to verify correct operation of the resulting schema
and statements.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

Schema and query extracted from Skrooge.org.
#
do_test fuzz-oss1-skrooge {
 db eval {
 CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent
 TEXT NOT NULL DEFAULT "",t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT "",b_blob
 BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL
 DEFAULT 0);
 CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
 NOT NULL,t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')),d_date DATE NOT
 NULL,t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')),i_parent INTEGER,
 t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
 CREATE TABLE doctransactionitem (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
 rd_doctransaction_id INTEGER NOT NULL,i_object_id INTEGER NOT NULL,t_object_table TEXT NOT
 NULL,t_action VARCHAR(1) DEFAULT 'T' CHECK (t_action IN ('T', 'U', 'D')),t_sqlorder TEXT NOT NULL
 DEFAULT "");
 CREATE TABLE doctransactionmsg (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,
 rd_doctransaction_id INTEGER NOT NULL,t_message TEXT NOT NULL DEFAULT "",t_popup VARCHAR(1)

```

```

DEFAULT 'Y' CHECK (t_popup IN ('Y', 'N')));
CREATE TABLE unit(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL,t_symbol TEXT NOT NULL DEFAULT "",t_country TEXT NOT NULL DEFAULT "",t_type VARCHAR(1)
NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')),t_internet_code TEXT NOT NULL
DEFAULT "",i_nbdecimal INT NOT NULL DEFAULT 2,rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source
TEXT NOT NULL DEFAULT "");
CREATE TABLE unitvalue(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_unit_id
INTEGER NOT NULL,d_date DATE NOT NULL,f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));
CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL DEFAULT "",t_bank_number TEXT NOT NULL DEFAULT "",t_icon TEXT NOT NULL DEFAULT "");
CREATE TABLE interest(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_account_id
INTEGER NOT NULL,d_date DATE NOT NULL,f_rate FLOAT NOT NULL CHECK
(f_rate>=0),t_income_value_date_mode VARCHAR(1) NOT NULL DEFAULT 'F' CHECK
(t_income_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),t_expenditure_value_date_mode VARCHAR(1) NOT
NULL DEFAULT 'F' CHECK (t_expenditure_value_date_mode IN ('F', '0', '1', '2', '3', '4', '5')),t_base VARCHAR(3)
NOT NULL DEFAULT '24' CHECK (t_base IN ('24', '360', '365')));
CREATE TABLE operation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,i_group_id
INTEGER NOT NULL DEFAULT 0,i_number INTEGER DEFAULT 0 CHECK (i_number>=0),d_date DATE
NOT NULL DEFAULT '0000-00-00',rd_account_id INTEGER NOT NULL,t_mode TEXT NOT NULL
DEFAULT "",r_payee_id INTEGER NOT NULL DEFAULT 0,t_comment TEXT NOT NULL DEFAULT
"",rc_unit_id INTEGER NOT NULL,t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N',
'P', 'Y')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')),t_imported
VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_imported IN ('Y', 'N', 'P', 'T')),t_template VARCHAR(1)
NOT NULL DEFAULT 'N' CHECK (t_template IN ('Y', 'N')),t_import_id TEXT NOT NULL DEFAULT "",i_tmp
INTEGER NOT NULL DEFAULT 0,r_recurrentoperation_id INTEGER NOT NULL DEFAULT 0);
CREATE TABLE operationbalance(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,f_balance
FLOAT NOT NULL DEFAULT 0,r_operation_id INTEGER NOT NULL);
CREATE TABLE refund (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL DEFAULT "",t_comment TEXT NOT NULL DEFAULT "",t_close VARCHAR(1) DEFAULT 'N' CHECK
(t_close IN ('Y', 'N')));
CREATE TABLE payee (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL DEFAULT "",t_address TEXT NOT NULL DEFAULT "", t_bookmarked VARCHAR(1) NOT NULL
DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE suboperation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_comment
TEXT NOT NULL DEFAULT "",rd_operation_id INTEGER NOT NULL,r_category_id INTEGER NOT NULL
DEFAULT 0,f_value FLOAT NOT NULL DEFAULT 0.0,i_tmp INTEGER NOT NULL DEFAULT 0,r_refund_id
INTEGER NOT NULL DEFAULT 0, t_formula TEXT NOT NULL DEFAULT "");
CREATE TABLE rule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_description TEXT
NOT NULL DEFAULT "",t_definition TEXT NOT NULL DEFAULT "",t_action_description TEXT NOT NULL
DEFAULT "",t_action_definition TEXT NOT NULL DEFAULT "",t_action_type VARCHAR(1) DEFAULT 'S'
CHECK (t_action_type IN ('S', 'U', 'A')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK
(t_bookmarked IN ('Y', 'N')),f_sortorder FLOAT);
CREATE TABLE budget (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id
INTEGER NOT NULL DEFAULT 0,t_including_subcategories TEXT NOT NULL DEFAULT 'N' CHECK
(t_including_subcategories IN ('Y', 'N')),f_budgeted FLOAT NOT NULL DEFAULT 0.0,f_budgeted_modified
FLOAT NOT NULL DEFAULT 0.0,f_transferred FLOAT NOT NULL DEFAULT 0.0,i_year INTEGER NOT
NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month>=0 AND
i_month<=12));

```



```

CREATE TABLE budgetcategory(id INTEGER NOT NULL DEFAULT 0,id_category INTEGER NOT NULL
DEFAULT 0);
CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id
INTEGER NOT NULL DEFAULT 0,t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK
(t_category_condition IN ('Y', 'N')),t_year_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_year_condition
IN ('Y', 'N')),i_year INTEGER NOT NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0
CHECK (i_month>=0 AND i_month<=12),t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK
(t_month_condition IN ('Y', 'N')),i_condition INTEGER NOT NULL DEFAULT 0 CHECK (i_condition IN (-
1,0,1)),f_quantity FLOAT NOT NULL DEFAULT 0.0,t_absolute TEXT NOT NULL DEFAULT 'Y' CHECK
(t_absolute IN ('Y', 'N')),rc_category_id_target INTEGER NOT NULL DEFAULT 0,t_category_target TEXT NOT
NULL DEFAULT 'Y' CHECK (t_category_target IN ('Y', 'N')),t_rule TEXT NOT NULL DEFAULT 'N' CHECK
(t_rule IN ('N', 'C', 'Y')));
CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,d_date
DATE NOT NULL DEFAULT '0000-00-00',rd_operation_id INTEGER NOT NULL,i_period_increment
INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment>=0),t_period_unit TEXT NOT NULL
DEFAULT 'M' CHECK (t_period_unit IN ('D', 'W', 'M', 'Y')),t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK
(t_auto_write IN ('Y', 'N')),i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK
(i_auto_write_days>=0),t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')),i_warn_days
INTEGER NOT NULL DEFAULT 5 CHECK (i_warn_days>=0),t_times VARCHAR(1) DEFAULT 'N' CHECK
(t_times IN ('Y', 'N')),i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times>=0));
CREATE TABLE "category" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT
NOT NULL DEFAULT " CHECK (t_name NOT LIKE '% > %'),t_fullname TEXT,rd_category_id
INT,t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE "account"(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL,t_number TEXT NOT NULL DEFAULT ",t_agency_number TEXT NOT NULL DEFAULT
",t_agency_address TEXT NOT NULL DEFAULT ",t_comment TEXT NOT NULL DEFAULT ",t_close
VARCHAR(1) DEFAULT 'N' CHECK (t_close IN ('Y', 'N')),t_type VARCHAR(1) NOT NULL DEFAULT 'C'
CHECK (t_type IN ('C', 'D', 'A', 'T', 'L', 'W', 'O')),t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK
(t_bookmarked IN ('Y', 'N')),rd_bank_id INTEGER NOT NULL);
CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT
NULL DEFAULT " CHECK (t_name NOT LIKE '% > %'),t_fullname TEXT,t_icon TEXT DEFAULT
",f_sortorder FLOAT,t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN ('Y', 'N')),t_data
TEXT,rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);
CREATE TABLE vm_category_display_tmp(
id INT,
t_name TEXT,
t_fullname TEXT,
rd_category_id INT,
t_bookmarked TEXT,
i_NBOPERATIONS,
f_REALCURRENTAMOUNT
);
CREATE TABLE vm_budget_tmp(
id INT,
rc_category_id INT,
t_including_subcategories TEXT,
f_budgeted REAL,
f_budgeted_modified REAL,

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f_transferred REAL,
i_year INT,
i_month INT,
t_CATEGORY,
t_PERIOD,
f_CURRENTAMOUNT,
t_RULES
);
CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id,
t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tmp ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name,rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);

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CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date,rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name,rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date,rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year,i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * from node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname from node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname from parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW
BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||parameters'; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN UPDATE node SET
t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id="" OR new.rd_node_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN UPDATE
node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id="" OR new.rd_node_id=0
THEN new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;UPDATE node SET t_name=t_name WHERE rd_node_id=new.id;END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (bank est utilis par account)
Nom de la contrainte: fki_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id!= AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilis par account)
Nom de la contrainte: fku_account_bank_rd_bank_id_id') WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id!= AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (category est utilis par budget)
Nom de la contrainte: fki_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!= AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budget)
Nom de la contrainte: fku_budget_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!= AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budget)
Nom de la contrainte: fkd_budget_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM
budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (category est utilis par budgetrule)

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Nom de la contrainte: fki_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!=" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_id') WHERE NEW.rc_category_id!=0 AND
NEW.rc_category_id!=" AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON category FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id') WHERE (SELECT rc_category_id FROM
budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (category est utilis par budgetrule)
Nom de la contrainte: fki_budgetrule_category_rc_category_id_target_id') WHERE
NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!=" AND (SELECT id FROM category WHERE
id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par
budgetrule)
Nom de la contrainte: fku_budgetrule_category_rc_category_id_target_id') WHERE
NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!=" AND (SELECT id FROM category WHERE
id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par
budgetrule)
Nom de la contrainte: fkd_budgetrule_category_rc_category_id_target_id') WHERE (SELECT
rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (category est utilis par category)
Nom de la contrainte: fki_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND
NEW.rd_category_id!=" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category)
Nom de la contrainte: fku_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND
NEW.rd_category_id!=" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkd_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH
ROW BEGIN DELETE FROM category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON
doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet
(doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fki_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!=" AND (SELECT id FROM doctransaction
WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON
doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet
(doctransaction est utilis par doctransactionitem)
Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!=" AND (SELECT id FROM doctransaction
WHERE id = NEW.rd_doctransaction_id) IS NULL; END;

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CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON
doctransaction FOR EACH ROW BEGIN DELETE FROM doctransactionitem WHERE
doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON
doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet
(doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!=" AND (SELECT id FROM doctransaction
WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON
doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet
(doctransaction est utilis par doctransactionmsg)
Nom de la contrainte: fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE
NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!=" AND (SELECT id FROM doctransaction
WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON
doctransaction FOR EACH ROW BEGIN DELETE FROM doctransactionmsg WHERE
doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (account est utilis par interest)
Nom de la contrainte: fki_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!=" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)
Nom de la contrainte: fku_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!=" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW
BEGIN DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (node est utilis par node)
Nom de la contrainte: fki_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!="
AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)
Nom de la contrainte: fku_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND
NEW.rd_node_id!=" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN
DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (account est utilis par operation)
Nom de la contrainte: fki_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!=" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation)
Nom de la contrainte: fku_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND
NEW.rd_account_id!=" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW
BEGIN DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;

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CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (payee est utilis par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND
NEW.r_payee_id!=" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND
NEW.r_payee_id!=" AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkd_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW
BEGIN UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (unit est utilis par operation)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!="
AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND
NEW.rc_unit_id!=" AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dtruire un objet (unit est utilis par operation)
Nom de la contrainte: fkd_operation_unit_rc_unit_id_id') WHERE (SELECT rc_unit_id FROM operation
WHERE rc_unit_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON
operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (recurrentoperation
est utilis par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE
NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!=" AND (SELECT id FROM
recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON
operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet
(recurrentoperation est utilis par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE
NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!=" AND (SELECT id FROM
recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON
recurrentoperation FOR EACH ROW BEGIN UPDATE operation SET r_recurrentoperation_id=0 WHERE
r_recurrentoperation_id=OLD.id; END;
CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (operation est utilis par
operationbalance)
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0 AND
NEW.r_operation_id!=" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;
CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance
FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par
operationbalance)
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id') WHERE NEW.r_operation_id!=0
AND NEW.r_operation_id!=" AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL;
END;

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CREATE TRIGGER fkd_operationbalance_operation_r_operation_id_id BEFORE DELETE ON operation FOR
EACH ROW BEGIN UPDATE operationbalance SET r_operation_id=0 WHERE r_operation_id=OLD.id; END;
CREATE TRIGGER fki_recurrentoperation_operation_rd_operation_id_id BEFORE INSERT ON
recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (operation
est utilis par recurrentoperation)
Nom de la contrainte: fki_recurrentoperation_operation_rd_operation_id_id) WHERE NEW.rd_operation_id!=0
AND NEW.rd_operation_id!=" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS
NULL; END;
CREATE TRIGGER fku_recurrentoperation_operation_rd_operation_id_id BEFORE UPDATE ON
recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet
(operation est utilis par recurrentoperation)
Nom de la contrainte: fku_recurrentoperation_operation_rd_operation_id_id) WHERE
NEW.rd_operation_id!=0 AND NEW.rd_operation_id!=" AND (SELECT id FROM operation WHERE id =
NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation
FOR EACH ROW BEGIN DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id =
OLD.id; END;
CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (operation est utilis par
suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id) WHERE NEW.rd_operation_id!=0 AND
NEW.rd_operation_id!=" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL;
END;
CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par
suboperation)
Nom de la contrainte: fku_suboperation_operation_rd_operation_id_id) WHERE NEW.rd_operation_id!=0
AND NEW.rd_operation_id!=" AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS
NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR
EACH ROW BEGIN DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (category est utilis par
suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id) WHERE NEW.r_category_id!=0 AND
NEW.r_category_id!=" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par
suboperation)
Nom de la contrainte: fku_suboperation_category_r_category_id_id) WHERE NEW.r_category_id!=0 AND
NEW.r_category_id!=" AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH
ROW BEGIN UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (refund est utilis par suboperation)
Nom de la contrainte: fki_suboperation_refund_r_refund_id_id) WHERE NEW.r_refund_id!=0 AND
NEW.r_refund_id!=" AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH

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ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilis par suboperation)
Nom de la contrainte: fku_suboperation_refund_r_refund_id_id') WHERE NEW.r_refund_id!=0 AND
NEW.r_refund_id!=" AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW
BEGIN UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;
CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN SELECT
RAISE(ABORT, 'Impossible d"ajouter un objet (unit est utilis par unit)
Nom de la contrainte: fki_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!=" AND
(SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unit)
Nom de la contrainte: fku_unit_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unit_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d"ajouter un objet (unit est utilis par unitvalue)
Nom de la contrainte: fki_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!="
AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW
BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par unitvalue)
Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id') WHERE NEW.rd_unit_id!=0 AND
NEW.rd_unit_id!=" AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR
EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par
vm_budget_tmp)
Nom de la contrainte: fkd_vm_budget_tmp_category_rc_category_id_id') WHERE (SELECT rc_category_id
FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON
category FOR EACH ROW BEGIN DELETE FROM vm_category_display_tmp WHERE
vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_unit_displayname AS SELECT *, t_namel' (||t_symbol||)' AS t_displayname FROM unit;
CREATE VIEW v_unit_tmp1 AS SELECT *,(SELECT count(*) FROM unitvalue s WHERE s.rd_unit_id=unit.id)
AS i_NBVALUES, (CASE WHEN unit.rd_unit_id=0 THEN " ELSE (SELECT (CASE WHEN s.t_symbol!="
THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=unit.rd_unit_id) END) AS t_UNIT,(CASE
unit.t_type WHEN '1' THEN 'Monnaie principale' WHEN '2' THEN 'Monnaie secondaire' WHEN 'C' THEN
'Monnaie' WHEN 'S' THEN 'Action' WHEN 'T' THEN 'Indice' ELSE 'Objet' END) AS t_TYPENLS, (SELECT
MIN(s.d_date) FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MINDATE, (SELECT MAX(s.d_date)
FROM unitvalue s WHERE s.rd_unit_id=unit.id) AS d_MAXDATE from unit;
CREATE VIEW v_unit_tmp2 AS SELECT *,CASE WHEN v_unit_tmp1.t_type='1' THEN 1 ELSE
IFNULL((SELECT s.f_quantity FROM unitvalue s WHERE s.rd_unit_id=v_unit_tmp1.id AND
s.d_date=v_unit_tmp1.d_MAXDATE),1) END AS f_LASTVALUE from v_unit_tmp1;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE
FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT from
v_unit_tmp2;
CREATE VIEW v_unitvalue_displayname AS SELECT *, (SELECT t_displayname FROM v_unit_displayname

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WHERE unitvalue.rd_unit_id=v_unit_displayname.id)||' ||STRFTIME('%d/%m/%Y',d_date) AS t_displayname
FROM unitvalue;
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM
v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON
T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND
(T2.i_number IS NULL) ORDER BY T1.i_number;
CREATE VIEW v_operation_tmp1 AS SELECT *,(SELECT t_name FROM payee s WHERE
s.id=operation.r_payee_id) AS t_PAYEE,(SELECT TOTAL(s.f_value) FROM suboperation s WHERE
s.rd_operation_id=operation.ID) AS f_QUANTITY,(SELECT count(*) FROM suboperation s WHERE
s.rd_operation_id=operation.ID) AS i_NBSUBCATEGORY FROM operation;
CREATE VIEW v_operation AS SELECT *,(SELECT s.id FROM suboperation s WHERE
s.rd_operation_id=v_operation_tmp1.id AND ABS(s.f_value)=(SELECT MAX(ABS(s2.f_value)) FROM
suboperation s2 WHERE s2.rd_operation_id=v_operation_tmp1.id)) AS i_MOSTIMPSUBOP,((SELECT
s.f_CURRENTAMOUNT FROM v_unit s WHERE
s.id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY) AS f_CURRENTAMOUNT, (CASE WHEN
v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE
v_operation_tmp1.rd_account_id=a.id AND a.t_type<>'L') AND EXISTS (SELECT 1 FROM v_operation_tmp1
op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND
a.t_type<>'L' AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY=-
v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;
CREATE VIEW v_operation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||'
'||IFNULL(t_PAYEE,'')||' ||v_operation.f_CURRENTAMOUNT||' ||(SELECT (CASE WHEN s.t_symbol!=
s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_displayname FROM
v_operation;
CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN t_status='Y' THEN 'Vous n"tes pas autoris
dtruire cette operation car en tat rapproch' END) t_delete_message FROM operation;
CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM interest s WHERE
s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation
s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;
CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE
rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n"tes
pas autoris dtruire ce compte car il contient des operations rapproches' END) t_delete_message FROM account;
CREATE VIEW v_bank_displayname AS SELECT *, t_name AS t_displayname FROM bank;
CREATE VIEW v_account_displayname AS SELECT *, (SELECT t_displayname FROM v_bank_displayname
WHERE account.rd_bank_id=v_bank_displayname.id)||'-'||t_name AS t_displayname FROM account;
CREATE VIEW v_bank AS SELECT *,(SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s
WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;
CREATE VIEW v_category_displayname AS SELECT *, t_fullname AS t_displayname FROM category;
CREATE VIEW v_category AS SELECT * FROM category;
CREATE VIEW v_recurrentoperation AS SELECT *,i_period_increment||' ||(CASE t_period_unit WHEN 'Y'
THEN 'anne(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNLS
FROM recurrentoperation;
CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||'
'||SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE
v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM

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v_recurrentoperation;
CREATE VIEW v_unitvalue_display AS SELECT *,IFNULL((SELECT (CASE WHEN s.t_symbol!="" THEN
s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=(SELECT s2.rd_unit_id FROM unit s2 WHERE
s2.id=unitvalue.rd_unit_id),") AS t_UNIT,STRFTIME('%Y-%m',unitvalue.d_date) AS
d_DATEMONTH,STRFTIME('%Y',unitvalue.d_date) AS d_DATEYEAR FROM unitvalue;
CREATE VIEW v_suboperation_display AS SELECT *,IFNULL((SELECT s.t_fullname FROM category s
WHERE s.id=v_suboperation.r_category_id,") AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s
WHERE s.id=v_suboperation.r_refund_id,") AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN
v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN
v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;
CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY||' : '||f_value AS t_displayname
FROM v_suboperation_display;
CREATE VIEW v_operation_display_all AS SELECT *,(SELECT s.t_name FROM account s WHERE
s.id=v_operation.rd_account_id) AS t_ACCOUNT,(SELECT (CASE WHEN s.t_symbol!="" THEN s.t_symbol
ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,(SELECT s.t_CATEGORY
FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,(SELECT
s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS
t_REFUND,(CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN ''
ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'dpense' ELSE
'Revenu' END) AS t_TYPEEXPENSENLS, STRFTIME('%Y-W%W',v_operation.d_date) AS
d_DATEWEEK,STRFTIME('%Y-%m',v_operation.d_date) AS
d_DATEMONTH,STRFTIME('%Y',v_operation.d_date)||'-Q'|(CASE WHEN
STRFTIME('%m',v_operation.d_date)<='03' THEN '1' WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN
'2' WHEN STRFTIME('%m',v_operation.d_date)<='09' THEN '3' ELSE '4' END) AS d_DATEQUARTER,
STRFTIME('%Y',v_operation.d_date)||'-S'|(CASE WHEN STRFTIME('%m',v_operation.d_date)<='06' THEN '1'
ELSE '2' END) AS d_DATESEMESTER, STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR, (SELECT
count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT,
(CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS
f_QUANTITY_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_QUANTITY
ELSE 0 END) AS f_QUANTITY_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE
o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN
v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN
v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS
f_CURRENTAMOUNT_EXPENSE FROM v_operation;
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE
t_template='Y';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-
00' AND t_template='N';
CREATE VIEW v_unit_display AS SELECT *,(SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o
WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;
CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN
'Carte de credit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN
'L' THEN 'Prt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS,bank.t_name AS t_BANK,bank.t_bank_number
AS t_BANK_NUMBER,bank.t_icon AS t_ICON,v_account.*, (v_account.f_CURRENTAMOUNT/(SELECT
u.f_CURRENTAMOUNT FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND
s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS f_QUANTITY, (SELECT (CASE WHEN
u.t_symbol!="" THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND
s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT, (SELECT

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TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND
s.t_status!='N' AND s.t_template='N') AS f_CHECKED, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM
v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS
f_COMING_SOON, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE
s.rd_account_id=v_account.id AND s.d_date<=date('now') AND s.t_template='N') AS f_TODAYAMOUNT,
(SELECT count(*) FROM v_operation_display s WHERE s.rd_account_id=v_account.id) AS i_NBOPERATIONS,
IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND
s.d_date=v_account.d_MAXDATE),0) AS f_RATE FROM v_account, bank WHERE
bank.id=v_account.rd_bank_id;
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s
WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE
u.id=op.rc_unit_id) AS t_UNITYTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN
sop.t_comment="" THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY
AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE
WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN " ELSE '+' END) AS t_TYPEEXPENSE, (CASE
WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN " ELSE 'Revenu' END) AS
t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS
f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT
u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS
f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE
u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT
u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS
f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display
AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;
CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS
i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON
p.t_uuid_parent=op.id||'-operation';
CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM
v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n"tes pas autoris dtruire
ce suiveur car utilis par des oprations rapproches' END) t_delete_message FROM refund;
CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM
v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;
CREATE VIEW v_refund_display AS SELECT *,(SELECT MIN(o.d_date) FROM v_operation_consolidated o
WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM
v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_LASTDATE FROM v_refund;
CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;
CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE
r_payee_id=payee.id AND t_status='Y') THEN 'Vous n"tes pas autoris dtruire ce tiers car utilis par des oprations
rapproches' END) t_delete_message FROM payee;
CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o
WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;
CREATE VIEW v_payee_display AS SELECT * FROM v_payee;
CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;
CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM
v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like
category.t_fullname||'%') AND t_status='Y') THEN 'Vous n"tes pas autoris dtruire cette catgorie car utilise par des
oprations rapproches' END) t_delete_message FROM category;
CREATE VIEW v_category_display_tmp AS SELECT *,(SELECT count(distinct(so.rd_operation_id)) FROM

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operation o, suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID AND
o.t_template='N') AS i_NBOPERATIONS, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM
v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT
FROM v_category;
CREATE VIEW v_category_display AS SELECT *,f_REALCURRENTAMOUNT+(SELECT
TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE
vm_category_display_tmp.t_fullname||' > %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT
CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname
like vm_category_display_tmp.t_fullname||' > %') AS i_SUMNBOPERATIONS, (CASE WHEN t_bookmarked='Y'
THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname like
vm_category_display_tmp.t_fullname||' > %') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD,
(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN
vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE '+' END) AS
t_TYPEEXPENSE,(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense'
WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' ELSE 'Revenu' END) AS
t_TYPEEXPENSENLS FROM vm_category_display_tmp;
CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode,
op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status,
op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE
rop.rd_operation_id=op.ID;
CREATE VIEW v_rule AS SELECT *,(SELECT COUNT(1) FROM rule r WHERE
r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;
CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;
CREATE VIEW v_interest AS SELECT *,(SELECT s.t_name FROM account s WHERE
s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;
CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' ||f_rate||%' AS
t_displayname FROM interest;
CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE
s.id=budgetrule.rc_category_id,") AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM
category s WHERE s.id=budgetrule.rc_category_id_target,") AS t_CATEGORY, (CASE WHEN
budgetrule.i_condition=-1 THEN 'Ngatif' WHEN budgetrule.i_condition=1 THEN 'Positif' WHEN
budgetrule.i_condition=0 THEN 'Tous' END) AS t_WHENNLS, f_quantity||(CASE WHEN
budgetrule.t_absolute='N' THEN '%' ELSE (SELECT t_symbol FROM unit WHERE t_type='1') END) AS
t_WHATNLS,(CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='C' THEN 'Courant'
WHEN budgetrule.t_rule='Y' THEN 'Anne' END) AS t_RULENLS FROM budgetrule;
CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT *, t_WHENNLS||' ||t_WHATNLS||' ||t_RULENLS||'
||t_CATEGORY AS t_displayname FROM v_budgetrule;
CREATE VIEW v_budget_tmp AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE
s.id=budget.rc_category_id,") AS t_CATEGORY, (i_year||(CASE WHEN i_month=0 THEN '' WHEN i_month<10
THEN '-0'||i_month ELSE '-'||i_month END)) AS t_PERIOD, (SELECT TOTAL(o.f_REALCURRENTAMOUNT)
FROM v_operation_consolidated o WHERE STRFTIME('%Y', o.d_date)=i_year AND (i_month=0 OR
STRFTIME('%m', o.d_date)=i_month) AND o.i_IDCATEGORY IN (SELECT b2.id_category FROM
budgetcategory b2 WHERE b2.id=budget.id)) AS f_CURRENTAMOUNT, (SELECT
GROUP_CONCAT(v_budgetrule_displayname.t_displayname,',') FROM v_budgetrule_displayname WHERE
(v_budgetrule_displayname.t_year_condition='N' OR budget.i_year=v_budgetrule_displayname.i_year) AND
(v_budgetrule_displayname.t_month_condition='N' OR budget.i_month=v_budgetrule_displayname.i_month) AND
(v_budgetrule_displayname.t_category_condition='N' OR

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budget.rc_category_id=v_budgetrule_displayname.rc_category_id) ORDER BY
v_budgetrule_displayname.t_absolute DESC, v_budgetrule_displayname.id) AS t_RULES FROM budget;
CREATE VIEW v_budget AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS
f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM v_budget_tmp;
CREATE VIEW v_budget_display AS SELECT *, (f_CURRENTAMOUNT-f_budgeted_modified) AS
f_DELTABEFORETRANSFER, (f_CURRENTAMOUNT-f_budgeted_modified-f_transferred) AS f_DELTA
FROM vm_budget_tmp;
CREATE VIEW v_budget_displayname AS SELECT *, t_CATEGORY||' '||t_PERIOD||' '||f_budgeted_modified AS
t_displayname FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW
BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW
BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR
EACH ROW BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'
||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW
BEGIN DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET
t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id="" OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name
END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id="" OR
rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE
c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;UPDATE category SET t_name=t_name
WHERE rd_category_id=new.id;END;

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CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;
explain
 SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
 from v_operation_display
 WHERE d_DATEMONTH IN ('2012-05', '2012-04')
 group by d_DATEMONTH, t_TYPEEXPENSE;
}
} {/. * Goto .*/}

The next test requires FTS4
ifcapable !fts3 {
 finish_test
 return
}

Taken from the gnome-shell project
#
db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
 db eval {
CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT
NULL, UNIQUE (Uri));
CREATE VIRTUAL TABLE fts USING fts4;
CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER,
"mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER,
"mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional"
INTEGER, "mfo:optional:graph" INTEGER);
CREATE TABLE "mfo:FeedChannel" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:updatedAt" INTEGER, "mfo:updatedAt:graph" INTEGER,
"mfo:updatedAt:localDate" INTEGER, "mfo:updatedAt:localTime"
INTEGER, "mfo:unreadCount" INTEGER, "mfo:unreadCount:graph" INTEGER,
"mfo:totalCount" INTEGER, "mfo:totalCount:graph" INTEGER, "mfo:action"
INTEGER, "mfo:action:graph" INTEGER, "mfo:type" INTEGER,
"mfo:type:graph" INTEGER);
CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER,
"mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER,
"mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime"
INTEGER);
CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL,
"mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph"

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INTEGER);
CREATE TABLE "mfo:FeedSettings" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:updateInterval" INTEGER, "mfo:updateInterval:graph" INTEGER,
"mfo:expiryInterval" INTEGER, "mfo:expiryInterval:graph" INTEGER,
"mfo:downloadPath" TEXT COLLATE NOCASE, "mfo:downloadPath:graph"
INTEGER, "mfo:downloadFlag" INTEGER, "mfo:downloadFlag:graph" INTEGER,
"mfo:maxSize" INTEGER, "mfo:maxSize:graph" INTEGER);
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT
NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph"
INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT
NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph"
INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL,
"mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph"
INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL,
"mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT
NULL, "mlo:asPostalAddress" INTEGER NOT NULL,
"mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL,
"mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL,
"mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city"
TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL,
"mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL,
"mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL,
"mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL,
"mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL,
"mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER,
"mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime"
INTEGER NOT NULL);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL,
"mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);

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CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT
NULL, "mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph"
INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT
NULL, "mlo:belongsToCategory" INTEGER NOT NULL,
"mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL,
"mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER
NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL,
"mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER
NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL,
"mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID
INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL,
"mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID
INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL,
"mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL,
"mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER,
"mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime"
INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL,
"mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL,
"mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER,
"mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime"
INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer" (ID INTEGER NOT NULL PRIMARY KEY,
"mto:transferState" INTEGER, "mto:transferState:graph" INTEGER,
"mto:method" INTEGER, "mto:method:graph" INTEGER, "mto:created"
INTEGER, "mto:created:graph" INTEGER, "mto:created:localDate" INTEGER,
"mto:created:localTime" INTEGER, "mto:account" TEXT COLLATE NOCASE,
"mto:account:graph" INTEGER, "mto:starter" INTEGER,
"mto:starter:graph" INTEGER, "mto:agent" INTEGER, "mto:agent:graph"
INTEGER);
CREATE TABLE "mto:TransferElement" (ID INTEGER NOT NULL PRIMARY KEY,
"mto:source" INTEGER, "mto:source:graph" INTEGER, "mto:destination"
INTEGER, "mto:destination:graph" INTEGER, "mto:startedTime" INTEGER,

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"mto:startedTime:graph" INTEGER, "mto:startedTime:localDate" INTEGER,
"mto:startedTime:localTime" INTEGER, "mto:completedTime" INTEGER,
"mto:completedTime:graph" INTEGER, "mto:completedTime:localDate"
INTEGER, "mto:completedTime:localTime" INTEGER, "mto:state" INTEGER,
"mto:state:graph" INTEGER);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL,
"mto:transferList" INTEGER NOT NULL, "mto:transferList:graph"
INTEGER);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT
NULL, "mto:transferPrivacyLevel" TEXT NOT NULL,
"mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT
NULL, "mto:transferCategory" TEXT NOT NULL,
"mto:transferCategory:graph" INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph"
INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE,
"nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER,
"nao:description" TEXT COLLATE NOCASE, "nao:description:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL,
"tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL,
"tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph"
INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm_ncal:action" (ID INTEGER NOT NULL,
"ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER,
"ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER,
"ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER,
"ncal:attachmentContent" TEXT COLLATE NOCASE,
"ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:delegatedTo" INTEGER, "ncal:delegatedTo:graph" INTEGER,
"ncal:delegatedFrom" INTEGER, "ncal:delegatedFrom:graph" INTEGER,
"ncal:cuetype" INTEGER, "ncal:cuetype:graph" INTEGER, "ncal:member"

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INTEGER, "ncal:member:graph" INTEGER, "ncal:role" INTEGER,
"ncal:role:graph" INTEGER, "ncal:rsvp" INTEGER, "ncal:rsvp:graph"
INTEGER, "ncal:partstat" INTEGER, "ncal:partstat:graph" INTEGER);
CREATE TABLE "ncal:AttendeeOrOrganizer" (ID INTEGER NOT NULL PRIMARY
KEY, "ncal:dir" INTEGER, "ncal:dir:graph" INTEGER,
"ncal:involvedContact" INTEGER, "ncal:involvedContact:graph" INTEGER,
"ncal:sentBy" INTEGER, "ncal:sentBy:graph" INTEGER);
CREATE TABLE "ncal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayModifier" (ID INTEGER NOT
NULL, "ncal:bydayModifier" INTEGER NOT NULL,
"ncal:bydayModifier:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT
NULL, "ncal:bydayWeekday" INTEGER NOT NULL, "ncal:bydayWeekday:graph"
INTEGER);
CREATE TABLE "ncal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:method" TEXT COLLATE NOCASE, "ncal:method:graph" INTEGER,
"ncal:calscale" INTEGER, "ncal:calscale:graph" INTEGER, "ncal:prodid"
TEXT COLLATE NOCASE, "ncal:prodid:graph" INTEGER, "ncal:version" TEXT
COLLATE NOCASE, "ncal:version:graph" INTEGER);
CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL,
"ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER,
"ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);
CREATE TABLE "ncal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:FreebusyType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL,
"ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:journalStatus" INTEGER, "ncal:journalStatus:graph" INTEGER);
CREATE TABLE "ncal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER,
"ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate"
INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER,
"ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER,
"ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:periodBegin" INTEGER, "ncal:periodBegin:graph" INTEGER,
"ncal:periodBegin:localDate" INTEGER, "ncal:periodBegin:localTime"
INTEGER, "ncal:periodDuration" INTEGER, "ncal:periodDuration:graph"

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INTEGER, "ncal:periodEnd" INTEGER, "ncal:periodEnd:graph" INTEGER,
"ncal:periodEnd:localDate" INTEGER, "ncal:periodEnd:localTime"
INTEGER);
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY
KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER,
"ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:until" INTEGER, "ncal:until:graph" INTEGER,
"ncal:until:localDate" INTEGER, "ncal:until:localTime" INTEGER,
"ncal:wkst" INTEGER, "ncal:wkst:graph" INTEGER, "ncal:interval"
INTEGER, "ncal:interval:graph" INTEGER, "ncal:count" INTEGER,
"ncal:count:graph" INTEGER, "ncal:freq" INTEGER, "ncal:freq:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL,
"ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL,
"ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL,
"ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL,
"ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT
NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph"
INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL,
"ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL,
"ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekno" (ID INTEGER NOT NULL,
"ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT
NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph"
INTEGER);
CREATE TABLE "ncal:RequestStatus" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:statusDescription" TEXT COLLATE NOCASE,
"ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT
COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER,
"ncal:requestStatusData" TEXT COLLATE NOCASE,
"ncal:requestStatusData:graph" INTEGER);
CREATE TABLE "ncal:TimeTransparency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Timezone" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:tzurl" INTEGER, "ncal:tzurl:graph" INTEGER, "ncal:standard"

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INTEGER, "ncal:standard:graph" INTEGER, "ncal:daylight" INTEGER,
"ncal:daylight:graph" INTEGER, "ncal:tzid" TEXT COLLATE NOCASE,
"ncal:tzid:graph" INTEGER);
CREATE TABLE "ncal:TimezoneObservance" (ID INTEGER NOT NULL PRIMARY
KEY, "ncal:tzoffsetfrom" TEXT COLLATE NOCASE,
"ncal:tzoffsetfrom:graph" INTEGER, "ncal:tzoffsetto" TEXT COLLATE
NOCASE, "ncal:tzoffsetto:graph" INTEGER, "ncal:tzname" TEXT COLLATE
NOCASE, "ncal:tzname:graph" INTEGER);
CREATE TABLE "ncal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:percentComplete" INTEGER, "ncal:percentComplete:graph" INTEGER,
"ncal:completed" INTEGER, "ncal:completed:graph" INTEGER,
"ncal:completed:localDate" INTEGER, "ncal:completed:localTime"
INTEGER, "ncal:todoStatus" INTEGER, "ncal:todoStatus:graph" INTEGER,
"ncal:due" INTEGER, "ncal:due:graph" INTEGER);
CREATE TABLE "ncal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Trigger" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:related" INTEGER, "ncal:related:graph" INTEGER,
"ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER,
"ncal:triggerDateTime:localDate" INTEGER,
"ncal:triggerDateTime:localTime" INTEGER, "ncal:triggerDuration"
INTEGER, "ncal:triggerDuration:graph" INTEGER);
CREATE TABLE "ncal:TriggerRelation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:UnionParentClass" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:lastModified" INTEGER, "ncal:lastModified:graph" INTEGER,
"ncal:lastModified:localDate" INTEGER, "ncal:lastModified:localTime"
INTEGER, "ncal:trigger" INTEGER, "ncal:trigger:graph" INTEGER,
"ncal:created" INTEGER, "ncal:created:graph" INTEGER,
"ncal:created:localDate" INTEGER, "ncal:created:localTime" INTEGER,
"ncal:url" INTEGER, "ncal:url:graph" INTEGER, "ncal:comment" TEXT
COLLATE NOCASE, "ncal:comment:graph" INTEGER, "ncal:summaryAltRep"
INTEGER, "ncal:summaryAltRep:graph" INTEGER, "ncal:priority" INTEGER,
"ncal:priority:graph" INTEGER, "ncal:location" TEXT COLLATE NOCASE,
"ncal:location:graph" INTEGER, "ncal:uid" TEXT COLLATE NOCASE,
"ncal:uid:graph" INTEGER, "ncal:requestStatus" INTEGER,
"ncal:requestStatus:graph" INTEGER, "ncal:recurrenceId" INTEGER,
"ncal:recurrenceId:graph" INTEGER, "ncal:dtstamp" INTEGER,
"ncal:dtstamp:graph" INTEGER, "ncal:dtstamp:localDate" INTEGER,
"ncal:dtstamp:localTime" INTEGER, "ncal:class" INTEGER,
"ncal:class:graph" INTEGER, "ncal:organizer" INTEGER,
"ncal:organizer:graph" INTEGER, "ncal:dtend" INTEGER,
"ncal:dtend:graph" INTEGER, "ncal:summary" TEXT COLLATE NOCASE,
"ncal:summary:graph" INTEGER, "ncal:descriptionAltRep" INTEGER,
"ncal:descriptionAltRep:graph" INTEGER, "ncal:commentAltRep" INTEGER,
"ncal:commentAltRep:graph" INTEGER, "ncal:sequence" INTEGER,
"ncal:sequence:graph" INTEGER, "ncal:contact" TEXT COLLATE NOCASE,
"ncal:contact:graph" INTEGER, "ncal:contactAltRep" INTEGER,
"ncal:contactAltRep:graph" INTEGER, "ncal:locationAltRep" INTEGER,
"ncal:locationAltRep:graph" INTEGER, "ncal:geo" INTEGER,

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"ncal:geo:graph" INTEGER, "ncal:resourcesAltRep" INTEGER,
"ncal:resourcesAltRep:graph" INTEGER, "ncal:dtstart" INTEGER,
"ncal:dtstart:graph" INTEGER, "ncal:description" TEXT COLLATE NOCASE,
"ncal:description:graph" INTEGER, "ncal:relatedToSibling" TEXT COLLATE
NOCASE, "ncal:relatedToSibling:graph" INTEGER, "ncal:duration"
INTEGER, "ncal:duration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL,
"ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT
NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT
NULL, "ncal:categories" TEXT NOT NULL, "ncal:categories:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL,
"ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL,
"ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT
NULL, "ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT
NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL,
"ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER
NOT NULL, "ncal:relatedToChild" TEXT NOT NULL,
"ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER
NOT NULL, "ncal:relatedToParent" TEXT NOT NULL,
"ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT
NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL,
"ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:Weekday" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Affiliation" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:department" TEXT COLLATE NOCASE, "nco:department:graph" INTEGER,
"nco:org" INTEGER, "nco:org:graph" INTEGER, "nco:role" TEXT COLLATE
NOCASE, "nco:role:graph" INTEGER);
CREATE TABLE "nco:Affiliation_nco:title" (ID INTEGER NOT NULL,
"nco:title" TEXT NOT NULL, "nco:title:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CarPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Contact" (ID INTEGER NOT NULL PRIMARY KEY,

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"nco:fullname" TEXT COLLATE NOCASE, "nco:fullname:graph" INTEGER,
"nco:key" INTEGER, "nco:key:graph" INTEGER, "nco:contactUID" TEXT
COLLATE NOCASE, "nco:contactUID:graph" INTEGER, "nco:contactLocalUID"
TEXT COLLATE NOCASE, "nco:contactLocalUID:graph" INTEGER,
"nco:hasLocation" INTEGER, "nco:hasLocation:graph" INTEGER,
"nco:nickname" TEXT COLLATE NOCASE, "nco:nickname:graph" INTEGER,
"nco:representative" INTEGER, "nco:representative:graph" INTEGER,
"nco:photo" INTEGER, "nco:photo:graph" INTEGER, "nco:birthDate"
INTEGER, "nco:birthDate:graph" INTEGER, "nco:birthDate:localDate"
INTEGER, "nco:birthDate:localTime" INTEGER, "nco:sound" INTEGER,
"nco:sound:graph" INTEGER);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactGroupName" TEXT COLLATE NOCASE,
"nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactList_nco:containsContact" (ID INTEGER NOT
NULL, "nco:containsContact" INTEGER NOT NULL,
"nco:containsContact:graph" INTEGER);
CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:contactMediumComment" TEXT COLLATE NOCASE,
"nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL,
"nca:anniversary" INTEGER NOT NULL, "nca:anniversary:graph"
INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL,
"nca:birthday" INTEGER NOT NULL, "nca:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL,
"nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph"
INTEGER);
CREATE TABLE "nco:Contact_nco:note" (ID INTEGER NOT NULL, "nco:note"
TEXT NOT NULL, "nco:note:graph" INTEGER);
CREATE TABLE "nco:Contact_sca:anniversary" (ID INTEGER NOT NULL,
"scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph"
INTEGER);
CREATE TABLE "nco:Contact_sca:birthday" (ID INTEGER NOT NULL,
"scal:birthday" INTEGER NOT NULL, "scal:birthday:graph" INTEGER);
CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:emailAddress" TEXT COLLATE NOCASE UNIQUE,
"nco:emailAddress:graph" INTEGER);
CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph"
INTEGER, "nco:imAccountType" TEXT COLLATE NOCASE,
"nco:imAccountType:graph" INTEGER, "nco:imDisplayName" TEXT COLLATE
NOCASE, "nco:imDisplayName:graph" INTEGER, "nco:imEnabled" INTEGER,

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"nco:imEnabled:graph" INTEGER);
CREATE TABLE "nco:IMAccount_nco:hasIMContact" (ID INTEGER NOT NULL,
"nco:hasIMContact" INTEGER NOT NULL, "nco:hasIMContact:graph"
INTEGER);
CREATE TABLE "nco:IMAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:imID" TEXT COLLATE NOCASE, "nco:imID:graph" INTEGER,
"nco:imNickname" TEXT COLLATE NOCASE, "nco:imNickname:graph" INTEGER,
"nco:imAvatar" INTEGER, "nco:imAvatar:graph" INTEGER, "nco:imProtocol"
TEXT COLLATE NOCASE, "nco:imProtocol:graph" INTEGER,
"nco:imStatusMessage" TEXT COLLATE NOCASE,
"nco:imStatusMessage:graph" INTEGER, "nco:imPresence" INTEGER,
"nco:imPresence:graph" INTEGER, "nco:presenceLastModified" INTEGER,
"nco:presenceLastModified:graph" INTEGER,
"nco:presenceLastModified:localDate" INTEGER,
"nco:presenceLastModified:localTime" INTEGER,
"nco:imAddressAuthStatusFrom" INTEGER,
"nco:imAddressAuthStatusFrom:graph" INTEGER,
"nco:imAddressAuthStatusTo" INTEGER, "nco:imAddressAuthStatusTo:graph"
INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL,
"nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph"
INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL
PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY
KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:nameFamily" TEXT COLLATE NOCASE, "nco:nameFamily:graph" INTEGER,
"nco:nameGiven" TEXT COLLATE NOCASE, "nco:nameGiven:graph" INTEGER,
"nco:nameAdditional" TEXT COLLATE NOCASE, "nco:nameAdditional:graph"
INTEGER, "nco:nameHonorificSuffix" TEXT COLLATE NOCASE,
"nco:nameHonorificSuffix:graph" INTEGER, "nco:nameHonorificPrefix"
TEXT COLLATE NOCASE, "nco:nameHonorificPrefix:graph" INTEGER,
"nco:hobby" TEXT COLLATE NOCASE, "nco:hobby:graph" INTEGER,
"nco:gender" INTEGER, "nco:gender:graph" INTEGER);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT
NULL, "nco:hasAffiliation" INTEGER NOT NULL,
"nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph"
INTEGER);

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CREATE TABLE "nco:PostalAddress" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:region" TEXT COLLATE NOCASE, "nco:region:graph" INTEGER,
"nco:country" TEXT COLLATE NOCASE, "nco:country:graph" INTEGER,
"nco:extendedAddress" TEXT COLLATE NOCASE,
"nco:extendedAddress:graph" INTEGER, "nco:addressLocation" INTEGER,
"nco:addressLocation:graph" INTEGER, "nco:streetAddress" TEXT COLLATE
NOCASE, "nco:streetAddress:graph" INTEGER, "nco:postalcode" TEXT
COLLATE NOCASE, "nco:postalcode:graph" INTEGER, "nco:locality" TEXT
COLLATE NOCASE, "nco:locality:graph" INTEGER, "nco:county" TEXT
COLLATE NOCASE, "nco:county:graph" INTEGER, "nco:district" TEXT
COLLATE NOCASE, "nco:district:graph" INTEGER, "nco:pobox" TEXT
COLLATE NOCASE, "nco:pobox:graph" INTEGER);
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video"
INTEGER, "nco:video:graph" INTEGER);
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL,
"nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL,
"nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL,
"nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL,
"nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL,
"nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL,
"nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL,
"nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph"
INTEGER);
CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url"
INTEGER NOT NULL, "nco:url:graph" INTEGER);
CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL,
"nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY,
"nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph"
INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);

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CREATE TABLE "nfo:Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:channels" INTEGER, "nfo:channels:graph" INTEGER,
"nfo:sideChannels" INTEGER, "nfo:sideChannels:graph" INTEGER,
"nfo:lfeChannels" INTEGER, "nfo:lfeChannels:graph" INTEGER,
"nfo:sampleCount" INTEGER, "nfo:sampleCount:graph" INTEGER,
"nfo:bitsPerSample" INTEGER, "nfo:bitsPerSample:graph" INTEGER,
"nfo:frontChannels" INTEGER, "nfo:frontChannels:graph" INTEGER,
"nfo:sampleRate" REAL, "nfo:sampleRate:graph" INTEGER,
"nfo:averageAudioBitrate" REAL, "nfo:averageAudioBitrate:graph"
INTEGER, "nfo:rearChannels" INTEGER, "nfo:rearChannels:graph" INTEGER,
"nfo:gain" INTEGER, "nfo:gain:graph" INTEGER, "nfo:peakGain" INTEGER,
"nfo:peakGain:graph" INTEGER, "nfo:audioOffset" REAL,
"nfo:audioOffset:graph" INTEGER);
CREATE TABLE "nfo:Bookmark" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:bookmarks" INTEGER, "nfo:bookmarks:graph" INTEGER,
"nfo:characterPosition" INTEGER, "nfo:characterPosition:graph"
INTEGER, "nfo:pageNumber" INTEGER, "nfo:pageNumber:graph" INTEGER,
"nfo:streamPosition" INTEGER, "nfo:streamPosition:graph" INTEGER,
"nfo:streamDuration" INTEGER, "nfo:streamDuration:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT
NULL, "nfo:containsBookmark" INTEGER NOT NULL,
"nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID
INTEGER NOT NULL, "nfo:containsBookmarkFolder" INTEGER NOT NULL,
"nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DeletedResource" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:originalLocation" TEXT COLLATE NOCASE,
"nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER,
"nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate"
INTEGER, "nfo:deletionDate:localTime" INTEGER);
CREATE TABLE "nfo:Document" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:tableOfContents" TEXT COLLATE NOCASE,
"nfo:tableOfContents:graph" INTEGER);
CREATE TABLE "nfo:EmbeddedFileDataObject" (ID INTEGER NOT NULL PRIMARY
KEY, "nfo:encoding" TEXT COLLATE NOCASE, "nfo:encoding:graph"
INTEGER);
CREATE TABLE "nfo:Equipment" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:manufacturer" TEXT COLLATE NOCASE, "nfo:manufacturer:graph"
INTEGER, "nfo:model" TEXT COLLATE NOCASE, "nfo:model:graph" INTEGER,
"nfo:equipmentSoftware" TEXT COLLATE NOCASE,
"nfo:equipmentSoftware:graph" INTEGER);
CREATE TABLE "nfo:Executable" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FileDataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:fileLastAccessed" INTEGER, "nfo:fileLastAccessed:graph" INTEGER,

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"nfo:fileLastAccessed:localDate" INTEGER,
"nfo:fileLastAccessed:localTime" INTEGER, "nfo:fileCreated" INTEGER,
"nfo:fileCreated:graph" INTEGER, "nfo:fileCreated:localDate" INTEGER,
"nfo:fileCreated:localTime" INTEGER, "nfo:fileSize" INTEGER,
"nfo:fileSize:graph" INTEGER, "nfo:permissions" TEXT COLLATE NOCASE,
"nfo:permissions:graph" INTEGER, "nfo:fileName" TEXT COLLATE NOCASE,
"nfo:fileName:graph" INTEGER, "nfo:hashCode" INTEGER,
"nfo:hashCode:graph" INTEGER, "nfo:fileOwner" INTEGER,
"nfo:fileOwner:graph" INTEGER, "nfo:fileLastModified" INTEGER,
"nfo:fileLastModified:graph" INTEGER, "nfo:fileLastModified:localDate"
INTEGER, "nfo:fileLastModified:localTime" INTEGER);
CREATE TABLE "nfo:FileHash" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:hashValue" TEXT COLLATE NOCASE, "nfo:hashValue:graph" INTEGER,
"nfo:hashAlgorithm" TEXT COLLATE NOCASE, "nfo:hashAlgorithm:graph"
INTEGER);
CREATE TABLE "nfo:Filesystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:FilesystemImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Folder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Font" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:fontFamily" TEXT COLLATE NOCASE, "nfo:fontFamily:graph" INTEGER,
"nfo:foundry" INTEGER, "nfo:foundry:graph" INTEGER);
CREATE TABLE "nfo:HardDiskPartition" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HelpDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:HtmlDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Icon" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:verticalResolution" INTEGER, "nfo:verticalResolution:graph"
INTEGER, "nfo:horizontalResolution" INTEGER,
"nfo:horizontalResolution:graph" INTEGER, "nfo:orientation" INTEGER,
"nfo:orientation:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:depicts" (ID INTEGER NOT NULL,
"nfo:depicts" INTEGER NOT NULL, "nfo:depicts:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:hasRegionOfInterest" (ID INTEGER NOT NULL,
"nfo:hasRegionOfInterest" INTEGER NOT NULL,
"nfo:hasRegionOfInterest:graph" INTEGER);
CREATE TABLE "nfo:Media" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:count"
INTEGER, "nfo:count:graph" INTEGER, "nfo:duration" INTEGER,
"nfo:duration:graph" INTEGER, "nfo:compressionType" INTEGER,
"nfo:compressionType:graph" INTEGER, "nfo:hasMediaStream" INTEGER,
"nfo:hasMediaStream:graph" INTEGER, "nfo:bitDepth" INTEGER,
"nfo:bitDepth:graph" INTEGER, "nfo:codec" TEXT COLLATE NOCASE,
"nfo:codec:graph" INTEGER, "nfo:encodedBy" TEXT COLLATE NOCASE,
"nfo:encodedBy:graph" INTEGER, "nfo:bitrateType" TEXT COLLATE NOCASE,
"nfo:bitrateType:graph" INTEGER, "nfo:averageBitrate" REAL,
"nfo:averageBitrate:graph" INTEGER, "nfo:genre" TEXT COLLATE NOCASE,
"nfo:genre:graph" INTEGER, "nfo:equipment" INTEGER,
"nfo:equipment:graph" INTEGER, "nfo:lastPlayedPosition" INTEGER,
"nfo:lastPlayedPosition:graph" INTEGER, "nmm:genre" TEXT COLLATE

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NOCASE, "nmm:genre:graph" INTEGER, "nmm:skipCounter" INTEGER,
"nmm:skipCounter:graph" INTEGER, "nmm:dlnaProfile" TEXT COLLATE
NOCASE, "nmm:dlnaProfile:graph" INTEGER, "nmm:dlnaMime" TEXT COLLATE
NOCASE, "nmm:dlnaMime:graph" INTEGER, "nmm:uPnPShared" INTEGER,
"nmm:uPnPShared:graph" INTEGER, "mtp:credits" TEXT COLLATE NOCASE,
"mtp:credits:graph" INTEGER, "mtp:creator" TEXT COLLATE NOCASE,
"mtp:creator:graph" INTEGER);
CREATE TABLE "nfo:MediaFileListEntry" (ID INTEGER NOT NULL PRIMARY
KEY, "nfo:listPosition" REAL, "nfo:listPosition:graph" INTEGER,
"nfo:entryUrl" TEXT COLLATE NOCASE, "nfo:entryUrl:graph" INTEGER);
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER,
"nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT
NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL,
"nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL,
"nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph"
INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden"
INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL,
"nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph"
INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY
KEY, "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER,
"nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER,
"nfo:regionOfInterestWidth" REAL, "nfo:regionOfInterestWidth:graph"
INTEGER, "nfo:regionOfInterestHeight" REAL,
"nfo:regionOfInterestHeight:graph" INTEGER, "nfo:regionOfInterestType"
INTEGER, "nfo:regionOfInterestType:graph" INTEGER, "nfo:roiRefersTo"
INTEGER, "nfo:roiRefersTo:graph" INTEGER);
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER,
"nfo:supercedes" INTEGER, "nfo:supercedes:graph" INTEGER,

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"nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER,
"nfo:softwareCmdLine" TEXT COLLATE NOCASE,
"nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph"
INTEGER);
CREATE TABLE "nfo:SoftwareItem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareService" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SourceCode" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:commentCharacterCount" INTEGER, "nfo:commentCharacterCount:graph"
INTEGER, "nfo:programmingLanguage" TEXT COLLATE NOCASE,
"nfo:programmingLanguage:graph" INTEGER, "nfo:definesClass" TEXT
COLLATE NOCASE, "nfo:definesClass:graph" INTEGER,
"nfo:definesFunction" TEXT COLLATE NOCASE,
"nfo:definesFunction:graph" INTEGER, "nfo:definesGlobalVariable" TEXT
COLLATE NOCASE, "nfo:definesGlobalVariable:graph" INTEGER);
CREATE TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER,
"nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER,
"nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER, "nfo:frameCount"
INTEGER, "nfo:frameCount:graph" INTEGER, "nfo:averageVideoBitrate"
REAL, "nfo:averageVideoBitrate:graph" INTEGER);
CREATE TABLE "nfo:Visual" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:contentCreated" INTEGER, "nie:contentCreated:graph" INTEGER,
"nie:contentCreated:localDate" INTEGER, "nie:contentCreated:localTime"
INTEGER, "nfo:aspectRatio" REAL, "nfo:aspectRatio:graph" INTEGER,
"nfo:heading" REAL, "nfo:heading:graph" INTEGER, "nfo:tilt" REAL,
"nfo:tilt:graph" INTEGER, "nfo:interlaceMode" INTEGER,
"nfo:interlaceMode:graph" INTEGER, "nfo:height" INTEGER,
"nfo:height:graph" INTEGER, "nfo:width" INTEGER, "nfo:width:graph"
INTEGER, "nfo:colorDepth" INTEGER, "nfo:colorDepth:graph" INTEGER);
CREATE TABLE "nfo:WebHistory" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:domain" TEXT COLLATE NOCASE, "nfo:domain:graph" INTEGER,
"nfo:uri" TEXT COLLATE NOCASE, "nfo:uri:graph" INTEGER);
CREATE TABLE "nfo:Website" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nid3:ID3Audio" (ID INTEGER NOT NULL PRIMARY KEY,
"nid3:title" TEXT COLLATE NOCASE, "nid3:title:graph" INTEGER,
"nid3:albumTitle" TEXT COLLATE NOCASE, "nid3:albumTitle:graph"
INTEGER, "nid3:contentType" TEXT COLLATE NOCASE,
"nid3:contentType:graph" INTEGER, "nid3:length" INTEGER,
"nid3:length:graph" INTEGER, "nid3:recordingYear" INTEGER,
"nid3:recordingYear:graph" INTEGER, "nid3:trackNumber" TEXT COLLATE

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NOCASE, "nid3:trackNumber:graph" INTEGER, "nid3:partOfSet" TEXT
COLLATE NOCASE, "nid3:partOfSet:graph" INTEGER, "nid3:comments" TEXT
COLLATE NOCASE, "nid3:comments:graph" INTEGER);
CREATE TABLE "nid3:ID3Audio_nid3:leadArtist" (ID INTEGER NOT NULL,
"nid3:leadArtist" INTEGER NOT NULL, "nid3:leadArtist:graph" INTEGER);
CREATE TABLE "nie:DataObject" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:url" TEXT COLLATE NOCASE UNIQUE, "nie:url:graph" INTEGER,
"nie:byteSize" INTEGER, "nie:byteSize:graph" INTEGER,
"nie:interpretedAs" INTEGER, "nie:interpretedAs:graph" INTEGER,
"nie:lastRefreshed" INTEGER, "nie:lastRefreshed:graph" INTEGER,
"nie:lastRefreshed:localDate" INTEGER, "nie:lastRefreshed:localTime"
INTEGER, "nie:created" INTEGER, "nie:created:graph" INTEGER,
"nie:created:localDate" INTEGER, "nie:created:localTime" INTEGER,
"nfo:belongsToContainer" INTEGER, "nfo:belongsToContainer:graph"
INTEGER, "tracker:available" INTEGER, "tracker:available:graph"
INTEGER);
CREATE TABLE "nie:DataObject_nie:dataSource" (ID INTEGER NOT NULL,
"nie:dataSource" INTEGER NOT NULL, "nie:dataSource:graph" INTEGER);
CREATE TABLE "nie:DataObject_nie:isPartOf" (ID INTEGER NOT NULL,
"nie:isPartOf" INTEGER NOT NULL, "nie:isPartOf:graph" INTEGER);
CREATE TABLE "nie:DataSource" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nie:InformationElement" (ID INTEGER NOT NULL PRIMARY
KEY, "nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nie:contentLastModified" INTEGER, "nie:contentLastModified:graph"
INTEGER, "nie:contentLastModified:localDate" INTEGER,
"nie:contentLastModified:localTime" INTEGER, "nie:subject" TEXT
COLLATE NOCASE, "nie:subject:graph" INTEGER, "nie:mimeType" TEXT
COLLATE NOCASE, "nie:mimeType:graph" INTEGER, "nie:language" TEXT
COLLATE NOCASE, "nie:language:graph" INTEGER, "nie:plainTextContent"
TEXT COLLATE NOCASE, "nie:plainTextContent:graph" INTEGER,
"nie:legal" TEXT COLLATE NOCASE, "nie:legal:graph" INTEGER,
"nie:generator" TEXT COLLATE NOCASE, "nie:generator:graph" INTEGER,
"nie:description" TEXT COLLATE NOCASE, "nie:description:graph"
INTEGER, "nie:disclaimer" TEXT COLLATE NOCASE, "nie:disclaimer:graph"
INTEGER, "nie:depends" INTEGER, "nie:depends:graph" INTEGER,
"nie:links" INTEGER, "nie:links:graph" INTEGER, "nie:copyright" TEXT
COLLATE NOCASE, "nie:copyright:graph" INTEGER, "nie:comment" TEXT
COLLATE NOCASE, "nie:comment:graph" INTEGER, "nie:isStoredAs"
INTEGER, "nie:isStoredAs:graph" INTEGER, "nie:version" TEXT COLLATE
NOCASE, "nie:version:graph" INTEGER, "nie:contentCreated" INTEGER,
"nie:contentCreated:graph" INTEGER, "nie:contentCreated:localDate"
INTEGER, "nie:contentCreated:localTime" INTEGER, "nie:contentAccessed"
INTEGER, "nie:contentAccessed:graph" INTEGER,
"nie:contentAccessed:localDate" INTEGER,
"nie:contentAccessed:localTime" INTEGER, "nie:license" TEXT COLLATE
NOCASE, "nie:license:graph" INTEGER, "nie:identifier" TEXT COLLATE
NOCASE, "nie:identifier:graph" INTEGER, "nie:licenseType" TEXT
COLLATE NOCASE, "nie:licenseType:graph" INTEGER, "nie:characterSet"

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TEXT COLLATE NOCASE, "nie:characterSet:graph" INTEGER,
"nie:contentSize" INTEGER, "nie:contentSize:graph" INTEGER,
"nie:rootElementOf" INTEGER, "nie:rootElementOf:graph" INTEGER,
"nie:usageCounter" INTEGER, "nie:usageCounter:graph" INTEGER,
"nco:publisher" INTEGER, "nco:publisher:graph" INTEGER,
"nfo:isContentEncrypted" INTEGER, "nfo:isContentEncrypted:graph"
INTEGER, "slo:location" INTEGER, "slo:location:graph" INTEGER,
"nfo:isBootable" INTEGER, "nfo:isBootable:graph" INTEGER, "osinfo:id"
TEXT COLLATE NOCASE, "osinfo:id:graph" INTEGER, "osinfo:mediaId" TEXT
COLLATE NOCASE, "osinfo:mediaId:graph" INTEGER);
CREATE TABLE "nie:InformationElement_mlo:location" (ID INTEGER NOT
NULL, "mlo:location" INTEGER NOT NULL, "mlo:location:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nao:hasProperty" (ID INTEGER NOT
NULL, "nao:hasProperty" INTEGER NOT NULL, "nao:hasProperty:graph"
INTEGER);
CREATE TABLE "nie:InformationElement_nco:contributor" (ID INTEGER NOT
NULL, "nco:contributor" INTEGER NOT NULL, "nco:contributor:graph"
INTEGER);
CREATE TABLE "nie:InformationElement_nco:creator" (ID INTEGER NOT
NULL, "nco:creator" INTEGER NOT NULL, "nco:creator:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasLogicalPart" (ID INTEGER
NOT NULL, "nie:hasLogicalPart" INTEGER NOT NULL,
"nie:hasLogicalPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:hasPart" (ID INTEGER NOT
NULL, "nie:hasPart" INTEGER NOT NULL, "nie:hasPart:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:informationElementDate" (ID
INTEGER NOT NULL, "nie:informationElementDate" INTEGER NOT NULL,
"nie:informationElementDate:graph" INTEGER,
"nie:informationElementDate:localDate" INTEGER NOT NULL,
"nie:informationElementDate:localTime" INTEGER NOT NULL);
CREATE TABLE "nie:InformationElement_nie:isLogicalPartOf" (ID INTEGER
NOT NULL, "nie:isLogicalPartOf" INTEGER NOT NULL,
"nie:isLogicalPartOf:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT
NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT
NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph"
INTEGER);
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER,
"nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER);
CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph"
INTEGER);
CREATE TABLE "nmm:DigitalRadio" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:streamingBitrate" INTEGER, "nmm:streamingBitrate:graph" INTEGER,
"nmm:encoding" TEXT COLLATE NOCASE, "nmm:encoding:graph" INTEGER,
"nmm:protocol" TEXT COLLATE NOCASE, "nmm:protocol:graph" INTEGER);

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CREATE TABLE "nmm:Flash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbum" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nmm:albumTrackCount" INTEGER, "nmm:albumTrackCount:graph" INTEGER,
"nmm:albumTitle" TEXT COLLATE NOCASE, "nmm:albumTitle:graph" INTEGER,
"nmm:albumDuration" INTEGER, "nmm:albumDuration:graph" INTEGER,
"nmm:albumGain" INTEGER, "nmm:albumGain:graph" INTEGER,
"nmm:albumPeakGain" INTEGER, "nmm:albumPeakGain:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER,
"nmm:musicCDIdentifier" TEXT COLLATE NOCASE,
"nmm:musicCDIdentifier:graph" INTEGER, "nmm:setNumber" INTEGER,
"nmm:setNumber:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL,
"nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:title" TEXT COLLATE NOCASE, "nie:title:graph" INTEGER,
"nmm:musicAlbum" INTEGER, "nmm:musicAlbum:graph" INTEGER,
"nmm:musicAlbumDisc" INTEGER, "nmm:musicAlbumDisc:graph" INTEGER,
"nmm:beatsPerMinute" INTEGER, "nmm:beatsPerMinute:graph" INTEGER,
"nmm:performer" INTEGER, "nmm:performer:graph" INTEGER, "nmm:composer"
INTEGER, "nmm:composer:graph" INTEGER, "nmm:lyricist" INTEGER,
"nmm:lyricist:graph" INTEGER, "nmm:trackNumber" INTEGER,
"nmm:trackNumber:graph" INTEGER,
"nmm:internationalStandardRecordingCode" TEXT COLLATE NOCASE,
"nmm:internationalStandardRecordingCode:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL,
"nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" INTEGER);
CREATE TABLE "nmm:Photo" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:exposureTime" REAL, "nmm:exposureTime:graph" INTEGER, "nmm:flash"
INTEGER, "nmm:flash:graph" INTEGER, "nmm:fnumber" REAL,
"nmm:fnumber:graph" INTEGER, "nmm:focalLength" REAL,
"nmm:focalLength:graph" INTEGER, "nmm:isoSpeed" REAL,
"nmm:isoSpeed:graph" INTEGER, "nmm:meteringMode" INTEGER,
"nmm:meteringMode:graph" INTEGER, "nmm:whiteBalance" INTEGER,
"nmm:whiteBalance:graph" INTEGER, "nmm:isCropped" INTEGER,
"nmm:isCropped:graph" INTEGER, "nmm:isColorCorrected" INTEGER,
"nmm:isColorCorrected:graph" INTEGER);
CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY"
INTEGER, "nmm:radioPTY:graph" INTEGER);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL,
"nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY,

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"nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph"
INTEGER);
CREATE TABLE "nmm:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nmm:videoAlbum" INTEGER, "nmm:videoAlbum:graph" INTEGER,
"nmm:isSeries" INTEGER, "nmm:isSeries:graph" INTEGER, "nmm:season"
INTEGER, "nmm:season:graph" INTEGER, "nmm:episodeNumber" INTEGER,
"nmm:episodeNumber:graph" INTEGER, "nmm:runTime" INTEGER,
"nmm:runTime:graph" INTEGER, "nmm:synopsis" TEXT COLLATE NOCASE,
"nmm:synopsis:graph" INTEGER, "nmm:MPAARating" TEXT COLLATE NOCASE,
"nmm:MPAARating:graph" INTEGER, "nmm:category" TEXT COLLATE NOCASE,
"nmm:category:graph" INTEGER, "nmm:producedBy" INTEGER,
"nmm:producedBy:graph" INTEGER, "nmm:hasSubtitle" INTEGER,
"nmm:hasSubtitle:graph" INTEGER, "nmm:isContentEncrypted" INTEGER,
"nmm:isContentEncrypted:graph" INTEGER, "mtp:fourCC" TEXT COLLATE
NOCASE, "mtp:fourCC:graph" INTEGER, "mtp:waveformat" TEXT COLLATE
NOCASE, "mtp:waveformat:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL,
"mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL,
"nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL,
"nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL,
"nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
"nmo:duration" INTEGER, "nmo:duration:graph" INTEGER);
CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY
KEY, "nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph"
INTEGER, "nmo:lastMessageDate:localDate" INTEGER,
"nmo:lastMessageDate:localTime" INTEGER,
"nmo:lastSuccessfulMessageDate" INTEGER,
"nmo:lastSuccessfulMessageDate:graph" INTEGER,
"nmo:lastSuccessfulMessageDate:localDate" INTEGER,
"nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER
NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL,
"nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER,
"nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent"
INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE
NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE

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NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL,
"nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph"
INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph"
INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE,
"nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER,
"nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE,
"nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER,
"nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER,
"nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph"
INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Message" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
"nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
"nmo:from" INTEGER, "nmo:from:graph" INTEGER, "nmo:isAnswered"
INTEGER, "nmo:isAnswered:graph" INTEGER, "nmo:isDeleted" INTEGER,
"nmo:isDeleted:graph" INTEGER, "nmo:isDraft" INTEGER,
"nmo:isDraft:graph" INTEGER, "nmo:isRead" INTEGER, "nmo:isRead:graph"
INTEGER, "nmo:isSent" INTEGER, "nmo:isSent:graph" INTEGER,
"nmo:isEmergency" INTEGER, "nmo:isEmergency:graph" INTEGER,
"nmo:htmlMessageContent" TEXT COLLATE NOCASE,
"nmo:htmlMessageContent:graph" INTEGER, "nmo:messageId" TEXT COLLATE
NOCASE, "nmo:messageId:graph" INTEGER, "nmo:messageSubject" TEXT
COLLATE NOCASE, "nmo:messageSubject:graph" INTEGER,
"nmo:receivedDate" INTEGER, "nmo:receivedDate:graph" INTEGER,
"nmo:receivedDate:localDate" INTEGER, "nmo:receivedDate:localTime"
INTEGER, "nmo:replyTo" INTEGER, "nmo:replyTo:graph" INTEGER,
"nmo:sender" INTEGER, "nmo:sender:graph" INTEGER, "nmo:conversation"
INTEGER, "nmo:conversation:graph" INTEGER, "nmo:communicationChannel"
INTEGER, "nmo:communicationChannel:graph" INTEGER,
"nmo:deliveryStatus" INTEGER, "nmo:deliveryStatus:graph" INTEGER,
"nmo:reportDelivery" INTEGER, "nmo:reportDelivery:graph" INTEGER,
"nmo:sentWithReportRead" INTEGER, "nmo:sentWithReportRead:graph"
INTEGER, "nmo:reportReadStatus" INTEGER, "nmo:reportReadStatus:graph"
INTEGER, "nmo:mustAnswerReportRead" INTEGER,
"nmo:mustAnswerReportRead:graph" INTEGER, "nmo:mmsId" TEXT COLLATE
NOCASE, "nmo:mmsId:graph" INTEGER);
CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER,
"nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph"

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INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc"
INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc"
INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL,
"nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph"
INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL,
"nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL,
"nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph"
INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL,
"nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL,
"nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to"
INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER,
"nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER,
"nmo:contentTransferEncoding" TEXT COLLATE NOCASE,
"nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription"
TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER,
"nmo:contentDisposition" TEXT COLLATE NOCASE,
"nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL,
"nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL,
"nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:PhoneMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"nmo:fromVCard" INTEGER, "nmo:fromVCard:graph" INTEGER, "nmo:encoding"
TEXT COLLATE NOCASE, "nmo:encoding:graph" INTEGER,
"nmo:phoneMessageId" INTEGER, "nmo:phoneMessageId:graph" INTEGER,
"nmo:validityPeriod" INTEGER, "nmo:validityPeriod:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY
KEY, "nmo:phoneMessageFolderId" TEXT COLLATE NOCASE,
"nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID
INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL,
"nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder"
(ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT
NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL,

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"nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdf:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"rdfs:domain" INTEGER, "rdfs:domain:graph" INTEGER, "rdfs:range"
INTEGER, "rdfs:range:graph" INTEGER, "tracker:indexed" INTEGER,
"tracker:indexed:graph" INTEGER, "tracker:secondaryIndex" INTEGER,
"tracker:secondaryIndex:graph" INTEGER, "tracker:fulltextIndexed"
INTEGER, "tracker:fulltextIndexed:graph" INTEGER,
"tracker:fulltextNoLimit" INTEGER, "tracker:fulltextNoLimit:graph"
INTEGER, "tracker:transient" INTEGER, "tracker:transient:graph"
INTEGER, "tracker:weight" INTEGER, "tracker:weight:graph" INTEGER,
"tracker:defaultValue" TEXT COLLATE NOCASE,
"tracker:defaultValue:graph" INTEGER, "nrl:maxCardinality" INTEGER,
"nrl:maxCardinality:graph" INTEGER, "tracker:writeback" INTEGER,
"tracker:writeback:graph" INTEGER, "tracker:forceJournal" INTEGER,
"tracker:forceJournal:graph" INTEGER);
CREATE TABLE "rdf:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL,
"rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph"
INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL,
"rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL,
"tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph"
INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Resource" (ID INTEGER NOT NULL PRIMARY KEY,
Available INTEGER NOT NULL, "rdfs:comment" TEXT COLLATE NOCASE,
"rdfs:comment:graph" INTEGER, "rdfs:label" TEXT COLLATE NOCASE,
"rdfs:label:graph" INTEGER, "tracker:added" INTEGER,
"tracker:added:graph" INTEGER, "tracker:added:localDate" INTEGER,
"tracker:added:localTime" INTEGER, "tracker:modified" INTEGER,
"tracker:modified:graph" INTEGER, "tracker:damaged" INTEGER,
"tracker:damaged:graph" INTEGER, "dc:title" TEXT COLLATE NOCASE,
"dc:title:graph" INTEGER, "dc:creator" TEXT COLLATE NOCASE,
"dc:creator:graph" INTEGER, "dc:subject" TEXT COLLATE NOCASE,
"dc:subject:graph" INTEGER, "dc:description" TEXT COLLATE NOCASE,
"dc:description:graph" INTEGER, "dc:publisher" TEXT COLLATE NOCASE,
"dc:publisher:graph" INTEGER, "dc:type" TEXT COLLATE NOCASE,
"dc:type:graph" INTEGER, "dc:format" TEXT COLLATE NOCASE,
"dc:format:graph" INTEGER, "dc:identifier" TEXT COLLATE NOCASE,

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"dc:identifier:graph" INTEGER, "dc:language" TEXT COLLATE NOCASE,
"dc:language:graph" INTEGER, "dc:coverage" TEXT COLLATE NOCASE,
"dc:coverage:graph" INTEGER, "dc:rights" TEXT COLLATE NOCASE,
"dc:rights:graph" INTEGER, "nao:identifier" TEXT COLLATE NOCASE,
"nao:identifier:graph" INTEGER, "nao:numericRating" REAL,
"nao:numericRating:graph" INTEGER, "nao:lastModified" INTEGER,
"nao:lastModified:graph" INTEGER, "nao:lastModified:localDate"
INTEGER, "nao:lastModified:localTime" INTEGER);
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL,
"dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date"
INTEGER NOT NULL, "dc:date:graph" INTEGER, "dc:date:localDate" INTEGER
NOT NULL, "dc:date:localTime" INTEGER NOT NULL);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL,
"dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL,
"dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL,
"nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL,
"nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL,
"nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type"
INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:attendanceStatus" INTEGER, "scal:attendanceStatus:graph"
INTEGER, "scal:attendeeRole" INTEGER, "scal:attendeeRole:graph"
INTEGER, "scal:attendeeContact" INTEGER, "scal:attendeeContact:graph"
INTEGER, "scal:rsvp" INTEGER, "scal:rsvp:graph" INTEGER,
"scal:calendarUserType" INTEGER, "scal:calendarUserType:graph"
INTEGER);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL,
"scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph"
INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL,
"scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph"
INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL,
"scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL,
"scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);

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CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT
NULL, "scal:alarmAttendee" INTEGER NOT NULL,
"scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:textLocation" INTEGER, "scal:textLocation:graph" INTEGER,
"scal:resources" TEXT COLLATE NOCASE, "scal:resources:graph" INTEGER,
"scal:transparency" INTEGER, "scal:transparency:graph" INTEGER,
"scal:calendarItemAlarm" INTEGER, "scal:calendarItemAlarm:graph"
INTEGER, "scal:start" INTEGER, "scal:start:graph" INTEGER, "scal:end"
INTEGER, "scal:end:graph" INTEGER, "scal:isAllDay" INTEGER,
"scal:isAllDay:graph" INTEGER, "scal:priority" INTEGER,
"scal:priority:graph" INTEGER, "scal:rdate" INTEGER,
"scal:rdate:graph" INTEGER, "scal:exceptionRDate" INTEGER,
"scal:exceptionRDate:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL,
"scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL,
"scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL,
"scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER
NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL,
"scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL,
"scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL,
"scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:recurrencePattern" TEXT COLLATE NOCASE,
"scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate"
INTEGER, "scal:recurrenceStartDate:graph" INTEGER, "scal:exception"
INTEGER, "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER,
"scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER,
"scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:todoStatus" INTEGER, "scal:todoStatus:graph" INTEGER, "scal:due"
INTEGER, "scal:due:graph" INTEGER, "scal:completed" INTEGER,
"scal:completed:graph" INTEGER, "scal:percentComplete" INTEGER,

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"scal:percentComplete:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:latitude" REAL, "slo:latitude:graph" INTEGER, "slo:longitude"
REAL, "slo:longitude:graph" INTEGER, "slo:verticalAccuracy" REAL,
"slo:verticalAccuracy:graph" INTEGER, "slo:horizontalAccuracy" REAL,
"slo:horizontalAccuracy:graph" INTEGER, "slo:altitude" REAL,
"slo:altitude:graph" INTEGER, "slo:boundingLatitudeMin" REAL,
"slo:boundingLatitudeMin:graph" INTEGER, "slo:boundingLatitudeMax"
REAL, "slo:boundingLatitudeMax:graph" INTEGER,
"slo:boundingLongitudeMin" REAL, "slo:boundingLongitudeMin:graph"
INTEGER, "slo:boundingLongitudeMax" REAL,
"slo:boundingLongitudeMax:graph" INTEGER, "slo:radius" REAL,
"slo:radius:graph" INTEGER, "slo:timestamp" INTEGER,
"slo:timestamp:graph" INTEGER, "slo:timestamp:localDate" INTEGER,
"slo:timestamp:localTime" INTEGER, "slo:postalAddress" INTEGER,
"slo:postalAddress:graph" INTEGER);
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER,
"slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT
NULL, "slo:belongsToCategory" INTEGER NOT NULL,
"slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL,
"slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:startTime" INTEGER, "slo:startTime:graph" INTEGER,
"slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER,
"slo:endTime" INTEGER, "slo:endTime:graph" INTEGER,
"slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL,
"slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph"
INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY,
"tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER,
"tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER,
"tracker:unmountDate:localDate" INTEGER,
"tracker:unmountDate:localTime" INTEGER, "tracker:mountPoint" INTEGER,
"tracker:mountPoint:graph" INTEGER, "tracker:isRemovable" INTEGER,
"tracker:isRemovable:graph" INTEGER, "tracker:isOptical" INTEGER,
"tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON

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"mfo:FeedMessage_mfo:enclosureList" (ID, "mfo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON
"mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID_ID" ON
"mlo:GeoLocation_mlo:asBoundingBox" ("mlo:asBoundingBox", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON
"mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON
"mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON
"mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON
"mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON
"mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON
"mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON
"mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON
"mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON
"mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON
"mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON
"mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON
"mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON
"mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON
"mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" ON
"mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID" ON
"mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID"
ON "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID,
"mlo:boxEastLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID"
ON "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID,
"mlo:boxNorthLimit");
CREATE UNIQUE INDEX

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"mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" ON
"mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID,
"mlo:boxSouthWestCorner");
CREATE UNIQUE INDEX
"mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON
"mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID,
"mlo:boxVerticalLimit");
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON
"mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON
"mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON
"mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON
"mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON
"mto:Transfer_mto:transferPrivacyLevel" (ID,
"mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON
"mto:UploadTransfer_mto:transferCategory" (ID,
"mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON
"nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON
"nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON
"ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON
"ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayWeekday_ID_ID" ON
"ncal:BydayRulePart_ncal:bydayWeekday" (ID, "ncal:bydayWeekday");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON
"ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON
"ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON
"ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON
"ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON
"ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON
"ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON
"ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON
"ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON

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"ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON
"ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON
"ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON
"ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON
"ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON
"ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON
"ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON
"ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON
"ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON
"ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON
"ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID"
ON "ncal:UnionParentClass_ncal:relatedToChild" (ID,
"ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID"
ON "ncal:UnionParentClass_ncal:relatedToParent" (ID,
"ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON
"ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON
"ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON
"nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON
"nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON
"nco:Contact_ncal:anniversary" (ID, "ncal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_ncal:birthday_ID_ID" ON
"nco:Contact_ncal:birthday" (ID, "ncal:birthday");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup_ID_ID" ON
"nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_nco:note_ID_ID" ON
"nco:Contact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nco:Contact_scal:anniversary_ID_ID" ON
"nco:Contact_scal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_scal:birthday_ID_ID" ON
"nco:Contact_scal:birthday" (ID, "scal:birthday");
CREATE UNIQUE INDEX "nco:IMAccount_nco:hasIMContact_ID_ID" ON

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"nco:IMAccount_nco:hasIMContact" (ID, "nco:hasIMContact");
CREATE UNIQUE INDEX "nco:IMAddress_nco:imCapability_ID_ID" ON
"nco:IMAddress_nco:imCapability" (ID, "nco:imCapability");
CREATE UNIQUE INDEX "nco:PersonContact_nco:hasAffiliation_ID_ID" ON
"nco:PersonContact_nco:hasAffiliation" (ID, "nco:hasAffiliation");
CREATE INDEX "nco:PersonContact_nco:nameFamily" ON "nco:PersonContact"
("nco:nameFamily");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber"
("nco:phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON
"nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON
"nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON
"nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID" ON
"nco:Role_nco:hasEmailAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON
"nco:Role_nco:hasEmailAddress" ("nco:hasEmailAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON
"nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON
"nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber");
CREATE INDEX "nco:Role_nco:hasPostalAddress_ID" ON
"nco:Role_nco:hasPostalAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON
"nco:Role_nco:hasPostalAddress" ("nco:hasPostalAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url"
(ID, "nco:url");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON
"nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX
"nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON
"nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID,
"nfo:containsBookmarkFolder");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON
"nfo:BookmarkFolder_nfo:containsBookmark" (ID,
"nfo:containsBookmark");
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON
"nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON
"nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON
"nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON
"nfo:MediaList_nfo:hasMediaFileListEntry" (ID,
"nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON

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"nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON
"nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON
"nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual"
("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON
"nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON
"nie:DataObject_nie:dataSource" (ID, "nie:dataSource");
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON
"nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf");
CREATE INDEX "nie:DataObject_nie:url" ON "nie:DataObject" ("nie:url");
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON
"nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON
"nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON
"nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON
"nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON
"nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID"
ON "nie:InformationElement_nie:hasLogicalPart" (ID,
"nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON
"nie:InformationElement_nie:hasPart" (ID, "nie:hasPart");
CREATE UNIQUE INDEX
"nie:InformationElement_nie:informationElementDate_ID_ID" ON
"nie:InformationElement_nie:informationElementDate" (ID,
"nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID"
ON "nie:InformationElement_nie:isLogicalPartOf" (ID,
"nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON
"nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON
"nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON
"nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nie:title" ON "nmm:MusicAlbum" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON
"nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");
CREATE INDEX "nmm:MusicPiece_nie:title" ON "nmm:MusicPiece" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON

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"nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");
CREATE INDEX "nmm:MusicPiece_nmm:musicAlbum" ON "nmm:MusicPiece"
("nmm:musicAlbum");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece"
("nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON
"nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON
"nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON
"nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON
"nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON
"nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID" ON
"nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE UNIQUE INDEX
"nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON
"nmo:CommunicationChannel_nmo:hasParticipant" ("nmo:hasParticipant",
ID);
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON
"nmo:CommunicationChannel" ("nmo:lastMessageDate");
CREATE UNIQUE INDEX "nmo:Email_nmo:contentMimeType_ID_ID" ON
"nmo:Email_nmo:contentMimeType" (ID, "nmo:contentMimeType");
CREATE UNIQUE INDEX "nmo:Message_nmo:bcc_ID_ID" ON
"nmo:Message_nmo:bcc" (ID, "nmo:bcc");
CREATE UNIQUE INDEX "nmo:Message_nmo:cc_ID_ID" ON "nmo:Message_nmo:cc"
(ID, "nmo:cc");
CREATE INDEX "nmo:Message_nmo:communicationChannel" ON "nmo:Message"
("nmo:communicationChannel", "nmo:receivedDate");
CREATE INDEX "nmo:Message_nmo:conversation" ON "nmo:Message"
("nmo:conversation");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON
"nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON
"nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON
"nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON
"nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON
"nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);

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CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to"
("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON
"nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON
"nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX
"nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID" ON
"nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID,
"nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX
"nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON
"nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID,
"nmo:containsPhoneMessage");
CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON
"nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
CREATE UNIQUE INDEX "rdf:Property_rdfs:subPropertyOf_ID_ID" ON
"rdf:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON
"rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf");
CREATE UNIQUE INDEX "rdfs:Class_tracker:domainIndex_ID_ID" ON
"rdfs:Class_tracker:domainIndex" (ID, "tracker:domainIndex");
CREATE UNIQUE INDEX "rdfs:Resource_dc:contributor_ID_ID" ON
"rdfs:Resource_dc:contributor" (ID, "dc:contributor");
CREATE UNIQUE INDEX "rdfs:Resource_dc:date_ID_ID" ON
"rdfs:Resource_dc:date" (ID, "dc:date");
CREATE UNIQUE INDEX "rdfs:Resource_dc:relation_ID_ID" ON
"rdfs:Resource_dc:relation" (ID, "dc:relation");
CREATE UNIQUE INDEX "rdfs:Resource_dc:source_ID_ID" ON
"rdfs:Resource_dc:source" (ID, "dc:source");
CREATE UNIQUE INDEX "rdfs:Resource_nao:deprecated_ID_ID" ON
"rdfs:Resource_nao:deprecated" (ID, "nao:deprecated");
CREATE INDEX "rdfs:Resource_nao:hasTag_ID_ID" ON "rdfs:Resource_nao:hasTag" (ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:hasTag_ID_ID" ON
"rdfs:Resource_nao:hasTag" ("nao:hasTag", ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:isRelated_ID_ID" ON
"rdfs:Resource_nao:isRelated" (ID, "nao:isRelated");
CREATE UNIQUE INDEX "rdfs:Resource_rdf:type_ID_ID" ON
"rdfs:Resource_rdf:type" (ID, "rdf:type");
CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource" ("tracker:added");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON
"scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON
"scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to");
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON
"scal:Attendee_scal:member" (ID, "scal:member");
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON
"scal:Attendee_scal:sent-by" (ID, "scal:sent-by");

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CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON
"scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON
"scal:CalendarItem_scal:access" (ID, "scal:access");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON
"scal:CalendarItem_scal:attachment" (ID, "scal:attachment");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON
"scal:CalendarItem_scal:attendee" (ID, "scal:attendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID"
ON "scal:CalendarItem_scal:belongsToCalendar" (ID,
"scal:belongsToCalendar");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON
"scal:CalendarItem_scal:contact" (ID, "scal:contact");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON
"scal:CalendarItem_scal:rrule" (ID, "scal:rrule");
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation"
("slo:postalAddress");
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON
"slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON
"slo:Landmark_slo:hasContact" (ID, "slo:hasContact");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON
"slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE
ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u")
COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID =
"1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM
"nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT
"nco:nickname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE
NOCASE, strftime("%s",(SELECT "nco:birthDate" FROM
"nco:Contact" WHERE ID = "1_u")), (SELECT "nie:url" FROM
"nie:DataObject" WHERE ID = (SELECT "nco:photo" FROM
"nco:Contact" WHERE ID = "1_u")) COLLATE NOCASE, (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT
"nco:imProtocol" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
"nco:imID" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
"nco:imNickname" FROM "nco:IMAddress" WHERE ID = "3_u") COLLATE
NOCASE, ? COLLATE NOCASE), '\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" AS
"2_u", "nco:Role_nco:hasIMAddress3"."nco:hasIMAddress" AS
"3_u" FROM "nco:PersonContact_nco:hasAffiliation" AS

```

```

"nco:PersonContact_nco:hasAffiliation2",
"nco:Role_nco:hasIMAddress" AS "nco:Role_nco:hasIMAddress3" WHERE
"1_u" = "nco:PersonContact_nco:hasAffiliation2"."ID" AND
"nco:PersonContact_nco:hasAffiliation2"."nco:hasAffiliation" =
"nco:Role_nco:hasIMAddress3"."ID"), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||(SELECT "nco:phoneNumber"
FROM "nco:PhoneNumber" WHERE ID = "4_u") COLLATE NOCASE, '\n')
FROM (SELECT "nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation"
AS "2_u", "nco:Role_nco:hasPhoneNumber5"."nco:hasPhoneNumber" AS
"4_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation4",
"nco:Role_nco:hasPhoneNumber" AS "nco:Role_nco:hasPhoneNumber5"
WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation4"."ID" AND
"nco:PersonContact_nco:hasAffiliation4"."nco:hasAffiliation" =
"nco:Role_nco:hasPhoneNumber5"."ID"), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||(SELECT "nco:emailAddress"
FROM "nco:EmailAddress" WHERE ID = "5_u") COLLATE NOCASE, ',')
FROM (SELECT "nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation"
AS "2_u", "nco:Role_nco:hasEmailAddress7"."nco:hasEmailAddress"
AS "5_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation6",
"nco:Role_nco:hasEmailAddress" AS "nco:Role_nco:hasEmailAddress7"
WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation6"."ID" AND
"nco:PersonContact_nco:hasAffiliation6"."nco:hasAffiliation" =
"nco:Role_nco:hasEmailAddress7"."ID"), (SELECT
GROUP_CONCAT("2_u"||? COLLATE NOCASE||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID =
"nco:blogUrl"),',') FROM "nco:Role_nco:blogUrl" WHERE ID =
"2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID =
"nco:websiteUrl"),',') FROM "nco:Role_nco:websiteUrl" WHERE ID =
"2_u"), ? COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT
GROUP_CONCAT((SELECT Uri FROM Resource WHERE ID = "nco:url"),',')
FROM "nco:Role_nco:url" WHERE ID = "2_u"), ? COLLATE NOCASE),
'\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation8"."nco:hasAffiliation" AS
"2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation8" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation8"."ID"), (SELECT
GROUP_CONCAT("6_u", ',') FROM (SELECT
"rdfs:Resource_nao:hasTag9"."nao:hasTag" AS "6_u" FROM
"rdfs:Resource_nao:hasTag" AS "rdfs:Resource_nao:hasTag9" WHERE
"1_u" = "rdfs:Resource_nao:hasTag9"."ID"), (SELECT Uri FROM
Resource WHERE ID = "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE
NOCASE||COALESCE((SELECT "nco:role" FROM "nco:Affiliation" WHERE
ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:department" FROM "nco:Affiliation"
WHERE ID = "2_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE

```

```

NOCASE||COALESCE((SELECT GROUP_CONCAT("nco:title",',') FROM
"nco:Affiliation_nco:title" WHERE ID = "2_u"), ? COLLATE NOCASE),
\n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation10"."nco:hasAffiliation" AS
"2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation10" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation10"."ID"), (SELECT
GROUP_CONCAT("nco:note",',') FROM "nco:Contact_nco:note" WHERE ID
= "1_u"), (SELECT "nco:gender" FROM "nco:PersonContact" WHERE ID
= "1_u"), (SELECT GROUP_CONCAT("2_u"||? COLLATE
NOCASE||COALESCE((SELECT "nco:pobox" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:district" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:county" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:locality" FROM "nco:PostalAddress"
WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE)||? COLLATE
NOCASE||COALESCE((SELECT "nco:postalcode" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:streetAddress"
FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ?
COLLATE NOCASE)||? COLLATE NOCASE||COALESCE((SELECT Uri FROM
Resource WHERE ID = (SELECT "nco:addressLocation" FROM
"nco:PostalAddress" WHERE ID = "7_u")), ? COLLATE NOCASE)||?
COLLATE NOCASE||COALESCE((SELECT "nco:extendedAddress" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:country" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE)||? COLLATE NOCASE||COALESCE((SELECT "nco:region" FROM
"nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE
NOCASE), \n') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" AS
"2_u", "nco:Role_nco:hasPostalAddress12"."nco:hasPostalAddress"
AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation11",
"nco:Role_nco:hasPostalAddress" AS
"nco:Role_nco:hasPostalAddress12" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation11"."ID" AND
"nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" =
"nco:Role_nco:hasPostalAddress12"."ID"), (SELECT
GROUP_CONCAT("10_u" COLLATE NOCASE, ',') FROM (SELECT
"nie:InformationElement_nao:hasProperty13"."nao:hasProperty" AS
"8_u", "nao:Property14"."nao:propertyName" AS "9_u",
"nao:Property14"."nao:propertyValue" AS "10_u" FROM
"nie:InformationElement_nao:hasProperty" AS
"nie:InformationElement_nao:hasProperty13", "nao:Property" AS
"nao:Property14" WHERE "1_u" =

```



```
"nie:InformationElement_nao:hasProperty13"."ID" AND
"nie:InformationElement_nao:hasProperty13"."nao:hasProperty" =
"nao:Property14"."ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT
NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE))) FROM (SELECT
"nco:PersonContact1"."ID" AS "1_u" FROM "nco:PersonContact" AS
"nco:PersonContact1") ORDER BY "1_u";
}
} {/. * Goto .*/}
```

finish\_test

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/fuzz-oss1.test
No license file was found, but licenses were detected in source scan.
```

without a shared lock, other processes are free to modify the database

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/atomiccommit.html
No license file was found, but licenses were detected in source scan.
```

<h3>Proprietary SQLite Extensions</h3>

<a href="copyright.html">public domain</a>. But there also exist  
proprietary, licensed extensions to SQLite, written and maintained  
You are welcomed to use SQLite in closed source, proprietary, and/or

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/support.html
No license file was found, but licenses were detected in source scan.
```

)putinterval

Found in path(s):

```
* 1 index 0(BadFont)
No license file was found, but licenses were detected in source scan.
```

Suppose the demo\_data.boundary field holds some proprietary data description

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/rtree.html
No license file was found, but licenses were detected in source scan.
```

<li>Sources are in the <a href="copyright.html">public domain</a>.

Rather than using fopen() to write XML or some proprietary format into

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/features.html
No license file was found, but licenses were detected in source scan.
```

```
2006 September 14
```

```
#
```

```
The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:
```

```
#
```

```
May you do good and not evil.
```

```
May you find forgiveness for yourself and forgive others.
```

```
May you share freely, never taking more than you give.
```

```
#
```

```

```

```
This file implements regression tests for SQLite library. The
```

```
focus of this script is testing the FTS2 module.
```

```
#
```

```
$Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp $
```

```
#
```

```
set testdir [file dirname $argv0]
```

```
source $testdir/tester.tcl
```

```
If SQLITE_ENABLE_FTS2 is defined, omit this file.
```

```
ifcapable !fts2 {
```

```
 finish_test
```

```
 return
```

```
}
```

```
Create a table of sample email data. The data comes from email
```

```
archives of Enron executives that was published as part of the
```

```
litigation against that company.
```

```
#
```

```
do_test fts2c-1.1 {
```

```
 db eval {
```

```
 CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
```

```
 BEGIN TRANSACTION;
```

```
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following
changes will be made to the Autohedge functionality on EnronOnline.
```

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

? If the transaction volume on the child is less than half of the parent's minimum volume no hedge will occur.

? If the transaction volume on the child is more than half the parent's minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent's minimum volume.

? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent's Settings:

Minimum: 5000

Increment: 1000

Volume on Autohedge transaction    Volume Hedged

1    - 2499    0

2500 - 5499    5000

5500 - 6499    6000');

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:

If it's ok with everyone's needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o'clock hour just let me know; I'll be more than willing to stay.');

INSERT INTO email([from],[to],subject,body) VALUES('enron\_update@concuere workplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger

Status last changed by: Mollie E. Gustafson Ms

Expense Report Name: CC02.06.02

Report Total: \$3,972.93

Amount Due Employee: \$3,972.93

To approve this expense report, click on the following link for Concur Expense.

<http://expense.ms.enron.com>');

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....

<http://biz.yahoo.com/rf/010129/n29305829.html>');

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.  
-----Original Message-----  
From: Johnson, Jay  
Sent: Tuesday, October 16, 2001 3:42 PM  
To: Carter, Karen E.  
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----  
From: Daigre, Sergai  
Sent: Friday, September 21, 2001 8:33 PM  
Subject: Producers Newsletter 9-24-2001

);  
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards  
Delainey');

INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com  
713.853.3884  
877.498.3401 Pager

-----Original Message-----  
From: Bisbee, Joanne  
Sent: Wednesday, September 26, 2001 7:50 AM  
To: Fenceroy, LaChandra  
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----

From: Koh, Wendy  
Sent: Tuesday, September 25, 2001 2:41 PM  
To: Bisbee, Joanne  
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,

If Julie's merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd's sheets as well.  
Thanks.

Dan

-----Original Message-----

From: Fagan, Fran  
Sent: Thursday, December 20, 2001 11:10 AM  
To: McCarty, Danny  
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan  
Sr. HR Rep  
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial\_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <[http://trv.corp.enron.com/linkFromExcel.asp?report\\_cd=11&report\\_name=NG+-](http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-)

+PROPT+P/L&category\_cd=5&category\_name=FINANCIAL&toc\_hide=1&sTV1=5&TV1Exp=Y&current\_efct\_d  
ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);  
INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com',  
'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our  
credit guy, Russell Diamond.

Thank for your help!);

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com',  
'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to  
you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com',  
'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com',  
'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power  
Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your  
daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive  
nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott

IIR, Inc.

713-783-5147 x 3481

outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL  
INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE.  
YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-  
MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS  
E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf

- 111201R.xls

- 111201.xls ');

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com',  
'all\_ena\_egm\_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001  
11:30 am - 12:30 pm  
EB 5 C2

You bring your lunch, Limited Seating  
We provide drinks and dessert. RSVP x 3-9610');  
INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com',  
'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM  
To: ""chris.germany@enron.com"" <chris.germany@enron.com>  
cc:  
Subject: About St Pauls

<<About St Pauls.url>>  
?  
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going here Christmas  
eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,  
among others.

Let me know.?? ii

- About St Pauls.url

);  
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com,  
kmccea@sablax.com, thompson@wrightlaw.com', 'Reply Brief filed July 31, 2000', '- CPUC01-#76371-v1-  
Revised\_Reply\_Brief\_\_Due\_today\_7\_31\_.doc');  
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com,  
lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00  
AM November 20,2000: E-GAS Request Reminder  
As discussed in the Winter Operations Meeting on Sept.29,2000,  
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.  
Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy  
chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.  
);

INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com',  
'rwoikwitz@powermerchants.com', '', ')

Here is a goody for you');

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o.rourke@enron.com', 'k.allen@enron.com,  
randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report  
named: West VaR

<[http://trv.corp.enron.com/linkFromExcel.asp?report\\_cd=36&report\\_name=West+VaR&category\\_cd=2&category\\_name=WEST&toc\\_hide=1&sTV1=2&TV1Exp=Y&current\\_efct\\_date=11/07/2001](http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001)>, published as of 11/07/2001 is  
now available for viewing on the website.');

INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com,  
ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ;  
110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron

');

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer  
practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com',  
'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works.

');

INSERT INTO email([from],[to],subject,body) VALUES('m.forney@enron.com', 'george.phillips@enron.com', '',  
'George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,

JMForney

3-7160');

INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no  
subject)', 'not yet');

INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com',  
'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of  
which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam

35227

-----Original Message-----

From: Royed, Jeff

Sent: Tuesday, September 25, 2001 11:37 AM

To: Bayer, Adam

Subject: Curve Fetch File



Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed

Enron

Energy Operations

Phone: 713-853-5295');

INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts

15 Questar Pipeline

40 Rockies Production

22 West\_2

23 West\_3

25 CIG\_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "\*" by the title of calculated points.');

INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '----- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM -----

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM

To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"

<Leila\_Mankarious@mhhs.org>, ""Marymankarious (E-mail)"

<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy

Mankarious (E-mail)" <Mankarious@aol.com>

cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

<http://www.egyptianfestival.com/>

- Egyptian Festival.url

');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',  
'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.....')

Thanks

----- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000  
08:39 AM -----

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David  
Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON  
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R  
Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra  
Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is  
extremely important that any deal booked to the East is communicated quickly  
to someone on my team. I know it will take some time for the new names to  
sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:

Scott Neal : East Northeast  
Dick Jenkins: East Marketeast

WK

);

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com',  
'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will  
affect any Inactive Child.

An inactive Child with links to Parent products will not have their  
calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and  
updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you  
will not see the final, calculated price until you Activate the product, at  
which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357  
Europe: + 44 (0) 20 7783 7783  
Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM  
To: "Vince J Kaminski" <Vince\_J\_Kaminski@enron.com>  
cc:  
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');

INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcanel@equiva.com', 'RE:', 'i will try to line up a pig for you');

INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black

East Power Trading

Assistant to Kevin Presto

off. 713-853-5800

fax 713-646-8272

cell 713-539-4760);

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]

[IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers,click here.

SmartReminders.com is a permission based service. To unsubscribe click here . ');

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',

'mark.bernstein@enron.com', ", 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA"s in California

for CIN, thus he left on a bad note. Let me know if you need more detail

than that, I felt this was the type of info you were looking for. Thanks!

Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron\_update@concreworkplace.com',  
'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash  
Report Name: Houston Cellular 8-11-01  
Report Date: 12/13/01  
Report ID: 594D37C9ED2111D5B452  
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com,  
mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based  
rates for', 'FYI. the latest broadside against the generators.

Sue Mara

Enron Corp.

Tel: (415) 782-7802

Fax:(415) 782-7854

----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com""  
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

<http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf>

');

INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com',  
'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com',  
'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

----- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001

16:36 -----

Nailia Dindarova

25/06/2001 15:36

To: Michael Brown/Enron@EUEnronXGate

cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

);

INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:

- Finalize market analysis to refine business case, specifically projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters of intent
- Review Enron asset base for potential reuse/ licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

- accenture-dealpoints v2.doc ');

INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',  
'Re: Guadalupe Power Partners LP', '----- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001  
03:49 PM -----

Thomas A Martin

10/11/2000 03:55 PM

To: Patrick Wade/HOU/ECT@ECT

cc:

Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

);

INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com,  
chris.germany@enron.com', 'Columbia Distribution's Capacity Available for Release - Sum', '-----  
Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04  
AM -----

agoddard@nisource.com on 03/08/2001 09:16:57 AM

To: " - \*Koch, Kent" <kkoch@nisource.com>, " -  
\*Millar, Debra" <dmillar@nisource.com>, " - \*Burke, Lynn"  
<lburke@nisource.com>

cc: " - \*Heckathorn, Tom" <theckathorn@nisource.com>

Subject: Columbia Distribution's Capacity Available for Release - Sum

Attached is Columbia Distribution's notice of capacity available for release for the summer of 2001 (Apr. 2001 through Oct. 2001).

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000.

Copies will be distributed to Legal and Credit.');

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,', 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', ',

'Did you come in town this wk end..... My new number at our house is :

713-668-3712..... my cell # is 281-381-7332

the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '

-----Original Message-----

From: Punja, Karim

Sent: Thursday, December 13, 2001 2:35 PM

To: Richey, Cooper

Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)

I hope we can stay in touch.

Home# 234-0249

email: kpunja@hotmail.com

Take Care,

Karim.

');

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven't talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com',



'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are stored on 44.

Shelley');

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com',  
'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference  
(Distribution List 2)', ' Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an  
Online RSVP Form on the Enron Law Conference Website at  
<http://lawconference.corp.enron.com>. The website is still under construction  
and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website  
is operational.

? Please complete the Online RSVP Form as soon as it is available and submit  
it no later than Friday, March 30th.

');

INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com',  
'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i'll call pat  
and let him know - we are coming on saturday - i just havent had a chance to  
call you guys back -- looking forward to it -- i probably need the  
directions again though');

INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com',  
'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573

From: Bryce Baxter

06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT

cc:

Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');

INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson

PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson

EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!

Casey');

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,', 'Postings', 'Please see the attached.

ds

');

INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james\_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation.

I wasn't sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL's work. Martin.

Martin B. Cominsky  
Director, Southwest Region  
Anti-Defamation League  
713/627-3490, ext. 122  
713/627-2011 (fax)  
MCominsky@aol.com);

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush's secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays. PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard  
Senior Legal Specialist  
Enron North America Corp.  
Phone: (713) 853-3907  
Fax: (713) 646-3490  
marie.heard@enron.com

);  
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

);  
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', '  
Please contact me if you have any questions regarding last weeks prices.

Thank you,  
Karolyn Criado  
3-9441

');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com',  
'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our  
Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail  
risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com',  
'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this  
tomorrow.

Stacy');

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', ", 'hey  
big guy.....check this out.....

w ww.gorelieberman-2000.com/');

INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', ", 'Jacques,

I sent you a fax of Kevin Kolb's comments on the release. The payoff on the note would be \$36,248  
(\$36090(principal) + \$158 (accrued interest)).

This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',  
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two  
links:

- 1) "Adj L\_R" is the same data/format from the weekly strategy meeting.
- 2) "New Gen 2001\_2002" link has all of the supply side info that is used to calculate the L/R balance  
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not  
included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.  
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on  
new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson

Fundamental Analysis

Enron North America

(503) 464-8280

kourtney.nelson@enron.com');

INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com',  
'FW: Current Enron TCC Portfolio', '

-----Original Message-----

From: Grace, Rebecca M.

Sent: Monday, December 17, 2001 9:44 AM

To: Thomas, Paul D.

Cc: Cashion, Jim; Allen, Thresa A.; May, Tom

Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY's list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----

From: Thomas, Paul D.

Sent: Monday, December 17, 2001 9:08 AM

To: Grace, Rebecca M.

Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>

Rebecca,

Let me know if you see any differences.

Paul

X 3-0403

-----Original Message-----

From: Thomas, Paul D.

Sent: Monday, December 17, 2001 9:04 AM

To: Ahmed, Naveed  
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----

From: Thomas, Paul D.  
Sent: Thursday, December 13, 2001 10:01 AM  
To: Baughman, Edward D.  
Subject: Current Enron TCC Portfolio

);  
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',  
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',  
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,  
L.P., effective February 1, 2001, with the surviving entity being El Paso  
Merchant Energy, L.P. We currently have ISDA Master Agreements with both  
counterparties. Please see the attached memo regarding the existing Masters  
and let us know which agreement should be terminated.

Thanks,  
Stephanie

);  
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c.kenne@enron.com', 'RE:  
What about this too???' , '

-----Original Message-----

From: Kenne, Dawn C.  
Sent: Wednesday, February 06, 2002 11:50 AM  
To: Keiser, Kam  
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

);  
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com',  
'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which  
means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris  
x31666');  
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com',  
'jworman@academyofhealth.com', ', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere  
Enron North America Corp.  
1400 Smith Street, EB 3885  
Houston, Texas 77002  
dperlin@enron.com  
Phone 713-853-7658  
Fax 713-646-3490);

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:

Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001

Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.

We got a request for guest access through MG.

The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks !

Best regards

Diana Seifert

EOL PCG');

INSERT INTO email([from],[to],subject,body) VALUES('enron\_update@concuworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz

Expense Report Name: 121001

Report Total: \$198.98

Amount Due Employee: \$198.98

Amount Approved: \$198.98

Amount Paid: \$0.00

Approval Status: Approved

Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.

<http://expense.ms.enron.com>);

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:

1800 678-515

support@palm-au.com

Canada:

1905 305-6530

support@palm.com

New Zealand:

0800 446-398

support@palm-nz.com

U.K.:

0171 867 0108

eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?'

-----Original Message-----

From: Quigley, Dutch

Sent: Wednesday, October 31, 2001 10:14 AM

To: Storey, Geoff

Subject: RE:

bp corp Albert LaMore 281-366-4962

running the reports now

-----Original Message-----

From: Storey, Geoff

Sent: Wednesday, October 31, 2001 10:10 AM

To: Quigley, Dutch

Subject: RE:

give me a contact over there too

BP



-----Original Message-----

From: Quigley, Dutch  
Sent: Wednesday, October 31, 2001 9:42 AM  
To: Storey, Geoff  
Subject:

Coral Jeff Whitnah 713-767-5374

Relaint Steve McGinn 713-207-4000');

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.

Variances detected.

Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----

\$\$\$ Variance found in table tblLoads.

Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)

TRANS\_TYPE: FINAL

LOAD\_ID: PGE4

MKT\_TYPE: 2

TRANS\_DATE: 4/22/01

SC\_ID: EPMI

);

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');

INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');

INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', ', 'Lite Bytz RSVP', ' This week's Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall

Solaris 8

Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to [litebytz@enron.com](mailto:litebytz@enron.com) by the end of the day Tuesday, June 5, 2001.

\*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

<http://home.enron.com:84/messaging/litebytztoolzprint.jpg>);

```
 COMMIT;
 }
} {}
```

```
#####
Everything above just builds an interesting test database. The actual
tests come after this comment.
#####
```

```
do_test fts2c-1.2 {
 execsql {
 SELECT rowid FROM email WHERE email MATCH 'mark'
 }
} {6 17 25 38 40 42 73 74}
do_test fts2c-1.3 {
 execsql {
 SELECT rowid FROM email WHERE email MATCH 'susan'
 }
} {24 40}
do_test fts2c-1.4 {
 execsql {
 SELECT rowid FROM email WHERE email MATCH 'mark susan'
 }
} {40}
do_test fts2c-1.5 {
 execsql {
 SELECT rowid FROM email WHERE email MATCH 'susan mark'
 }
} {40}
do_test fts2c-1.6 {
 execsql {
 SELECT rowid FROM email WHERE email MATCH "'mark susan'"
 }
} {}
do_test fts2c-1.7 {
 execsql {
 SELECT rowid FROM email WHERE email MATCH 'mark -susan'
 }
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
```

```

execsql {
 SELECT rowid FROM email WHERE email MATCH '-mark susan'
}
} {24}
do_test fts2c-1.9 {
 execsql {
 SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
 }
} {6 17 24 25 38 40 42 73 74}

Some simple tests of the automatic "offsets(email)" column. In the sample
data set above, only one message, number 20, contains the words
"gas" and "reminder" in both body and subject.
#
do_test fts2c-2.1 {
 execsql {
 SELECT rowid, offsets(email) FROM email
 WHERE email MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.2 {
 execsql {
 SELECT rowid, offsets(email) FROM email
 WHERE email MATCH 'subject:gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
 execsql {
 SELECT rowid, offsets(email) FROM email
 WHERE email MATCH 'body:gas reminder'
 }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.4 {
 execsql {
 SELECT rowid, offsets(email) FROM email
 WHERE subject MATCH 'gas reminder'
 }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts2c-2.5 {
 execsql {
 SELECT rowid, offsets(email) FROM email
 WHERE body MATCH 'gas reminder'
 }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

Document 32 contains 5 instances of the word "child". But only
3 of them are paired with "product". Make sure only those instances
that match the phrase appear in the offsets(email) list.

```

```

#
do_test fts2c-3.1 {
 execsql {
 SELECT rowid, offsets(email) FROM email
 WHERE body MATCH 'child product' AND +rowid=32
 }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts2c-3.2 {
 execsql {
 SELECT rowid, offsets(email) FROM email
 WHERE body MATCH "child product"
 }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

Snippet generator tests
#
do_test fts2c-4.1 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'subject:gas reminder'
 }
} {{Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder}}
do_test fts2c-4.2 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'christmas candlelight'
 }
} {{... place.? What do you think about going here Christmas
eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,
among others. ...}}
do_test fts2c-4.3 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture Deal Sheet ... intent
Review Enron asset base for potential reuse/ licensing
Contract negotiations ...}}
do_test fts2c-4.4 {
 execsql {
 SELECT snippet(email,'<<<','>>>',') FROM email
 WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
Contract negotiations }}
do_test fts2c-4.5 {

```

```

execsql {
 SELECT snippet(email,'<<<','>>>',') FROM email
 WHERE email MATCH 'first things'
}
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}
do_test fts2c-4.6 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'chris is here'
 }
} {{chris.germany@enron.com ... Sounds good to me. I bet this is next to the Warick??
Hotel. ... place.? What do you think about going here Christmas
eve?? They have an 11:00 a.m. ...}}
do_test fts2c-4.7 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH "'pursuant to'"
 }
} {{Erin:

Pursuant to your request, attached are the Schedule to ...}}
do_test fts2c-4.8 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'ancillary load davis'
 }
} {{pete.davis@enron.com ... Start Date: 4/22/01; HourAhead hour: 3; No ancillary
schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING ...}}

Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'questar enron OR com'
 }
} {{matt.smith@enron.com ... six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...}}

```

```
do_test fts2c-5.2 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'enron OR com questar'
 }
} {{ matt.smith@enron.com ... six reports:
```

```
31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 ...}}
```

```
finish_test
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/fts2c.test
No license file was found, but licenses were detected in source scan.
```

```
INSERT INTO x1 VALUES('blonds', 'proprietary');
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/e_select.test
No license file was found, but licenses were detected in source scan.
```

```
2006 September 14
```

```
#
```

```
The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:
```

```
#
```

```
May you do good and not evil.
```

```
May you find forgiveness for yourself and forgive others.
```

```
May you share freely, never taking more than you give.
```

```
#
```

```

```

```
This file implements regression tests for SQLite library. The
```

```
focus of this script is testing the FTS1 module.
```

```
#
```

```
$Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $
```

```
#
```

```
set testdir [file dirname $argv0]
```

```
source $testdir/tester.tcl
```

```
If SQLITE_ENABLE_FTS1 is defined, omit this file.
```

```
ifcapable !fts1 {
```

```
 finish_test
```

```

return
}

Create a table of sample email data. The data comes from email
archives of Enron executives that was published as part of the
litigation against that company.
#
do_test fts1c-1.1 {
db eval {
CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
BEGIN TRANSACTION;
INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following
changes will be made to the Autohedge functionality on EnronOnline.

```

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

- ? If the transaction volume on the child is less than half of the parent's minimum volume no hedge will occur.
- ? If the transaction volume on the child is more than half the parent's minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent's minimum volume.
- ? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent's Settings:

Minimum: 5000

Increment: 1000

Volume on Autohedge transaction    Volume Hedged

1    - 2499    0

2500 - 5499    5000

5500 - 6499    6000');

```

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com,
lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:

```

If it's ok with everyone's needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o'clock hour just let me know; I'll be more than willing to stay.');

```

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concuworkplace.com',
'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready
for approval:

```

Employee Name: Christopher F. Calger

Status last changed by: Mollie E. Gustafson Ms

Expense Report Name: CC02.06.02

Report Total: \$3,972.93

Amount Due Employee: \$3,972.93

To approve this expense report, click on the following link for Concur Expense.

<http://expense.ms.enron.com>);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....

<http://biz.yahoo.com/rf/010129/n29305829.html>);

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email([from],[to],subject,body) VALUES('e.carter@enron.com', 't.robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '

The producer lumber pricing sheet.

-----Original Message-----

From: Johnson, Jay

Sent: Tuesday, October 16, 2001 3:42 PM

To: Carter, Karen E.

Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----

From: Daigre, Sergai

Sent: Friday, September 21, 2001 8:33 PM

Subject: Producers Newsletter 9-24-2001

);

INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards

Delainey');



INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',  
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com  
713.853.3884  
877.498.3401 Pager

-----Original Message-----

From: Bisbee, Joanne  
Sent: Wednesday, September 26, 2001 7:50 AM  
To: Fenceroy, LaChandra  
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----

From: Koh, Wendy  
Sent: Tuesday, September 25, 2001 2:41 PM  
To: Bisbee, Joanne  
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com',  
'RE: worksheets', 'Fran,

If Julie's merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd's sheets as well.  
Thanks.

Dan

-----Original Message-----

From: Fagan, Fran  
Sent: Thursday, December 20, 2001 11:10 AM  
To: McCarty, Danny  
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan  
Sr. HR Rep  
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial\_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com,', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <[http://trv.corp.enron.com/linkFromExcel.asp?report\\_cd=11&report\\_name=NG+-+PROPT+P/L&category\\_cd=5&category\\_name=FINANCIAL&toc\\_hide=1&sTV1=5&TV1Exp=Y&current\\_efct\\_d ate=09/27/2001](http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001)>, published as of 09/27/2001 is now available for viewing on the website.');

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!');

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott

IIR, Inc.

713-783-5147 x 3481

outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf

- 111201R.xls

- 111201.xls ');

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all\_ena\_egm\_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001

11:30 am - 12:30 pm

EB 5 C2

You bring your lunch, Limited Seating

We provide drinks and dessert. RSVP x 3-9610');

INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM

To: "'chris.germany@enron.com'" <chris.germany@enron.com>

cc:

Subject: About St Pauls

<<About St Pauls.url>>

?

?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going here Christmas

eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');

INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratradng.com, kmccrea@sablau.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', '- CPUC01-#76371-v1-Revised\_Reply\_Brief\_\_Due\_today\_7\_31\_.doc');

INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder

As discussed in the Winter Operations Meeting on Sept.29,2000,

E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.

Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

');

INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', ', ' 'Here is a goody for you');

Here is a goody for you');

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o"rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR

<[http://trv.corp.enron.com/linkFromExcel.asp?report\\_cd=36&report\\_name=West+VaR&category\\_cd=2&category\\_name=WEST&toc\\_hide=1&sTV1=2&TV1Exp=Y&current\\_efct\\_date=11/07/2001](http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001)>, published as of 11/07/2001 is now available for viewing on the website.);

INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, gggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron

');

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn"t know how deep to go with the desk. Do you think this works.

');

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', ', 'George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,  
JMForney  
3-7160');

```
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
```

```
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.
```

adam  
35227

-----Original Message-----

From: Royed, Jeff  
Sent: Tuesday, September 25, 2001 11:37 AM  
To: Bayer, Adam  
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed  
Enron

Energy Operations

Phone: 713-853-5295');

```
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
```

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts  
15 Questar Pipeline  
40 Rockies Production  
22 West\_2  
23 West\_3  
25 CIG\_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "\*" by the title of calculated points.');

```
INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '----- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000
```

10:08 AM -----

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM  
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"  
<Leila\_Mankarious@mhhs.org>, ""Marymankarious (E-mail)"  
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy  
Mankarious (E-mail)" <Mankarious@aol.com>  
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

<http://www.egyptianfestival.com/>

- Egyptian Festival.url

);

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',  
'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.....')

Thanks

----- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000

08:39 AM -----

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David  
Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON  
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R  
Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra  
Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is  
extremely important that any deal booked to the East is communicated quickly  
to someone on my team. I know it will take some time for the new names to  
sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:

Scott Neal : East Northeast

Dick Jenkins: East Marketeast

WK

');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357

Europe: + 44 (0) 20 7783 7783

Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM

To: "Vince J Kaminski" <Vince\_J\_Kaminski@enron.com>

cc:

Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');

INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',  
'mmmarcotel@equiva.com', 'RE:', 'i will try to line up a pig for you ');

INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,  
chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are  
several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery  
Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer  
system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment  
for you to use.

Thanks for your understanding in this matter.

T.Jae Black

East Power Trading

Assistant to Kevin Presto

off. 713-853-5800

fax 713-646-8272

cell 713-539-4760');

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X  
24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this  
product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com',  
'10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]

[IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]



We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers,click here.

SmartReminders.com is a permission based service. To unsubscribe click here . ');

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', ', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron\_update@concreworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash

Report Name: Houston Cellular 8-11-01

Report Date: 12/13/01

Report ID: 594D37C9ED2111D5B452

Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.);

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara

Enron Corp.

Tel: (415) 782-7802

Fax:(415) 782-7854

----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"" <smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and

market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

<http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf>

);

INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

----- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001  
16:36 -----

Nailia Dindarova

25/06/2001 15:36

To: Michael Brown/Enron@EUEnronXGate

cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

);

INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',

'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:

- Finalize market analysis to refine business case, specifically  
projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters  
of intent
- Review Enron asset base for potential reuse/ licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

- accenture-dealpoints v2.doc ');

INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '----- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM -----

Thomas A Martin

10/11/2000 03:55 PM

To: Patrick Wade/HOU/ECT@ECT

cc:

Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

);

INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution's Capacity Available for Release - Sum', '----- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM -----

agoddard@nsource.com on 03/08/2001 09:16:57 AM

To: " - \*Koch, Kent" <kkoch@nsource.com>, " -

\*Millar, Debra" <dmillar@nsource.com>, " - \*Burke, Lynn"

<lburke@nisource.com>

cc: " - \*Heckathorn, Tom" <theckathorn@nisource.com>

Subject: Columbia Distribution's Capacity Available for Release - Sum

Attached is Columbia Distribution's notice of capacity available for release for the summer of 2001 (Apr. 2001 through Oct. 2001).

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

);

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000.

Copies will be distributed to Legal and Credit.');

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,', 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712..... my cell # is 281-381-7332

the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '

-----Original Message-----

From: Punja, Karim

Sent: Thursday, December 13, 2001 2:35 PM

To: Richey, Cooper

Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time) I hope we can stay in touch.

Home# 234-0249  
email: kpunja@hotmail.com

Take Care,

Karim.

);

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven't talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn);

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are stored on 44.

Shelley);

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', ' Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at <http://lawconference.corp.enron.com>. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

);

INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com',  
'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i"ll call pat  
and let him know - we are coming on saturday - i just havent had a chance to  
call you guys back -- looking forward to it -- i probably need the  
directions again though');

INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com',  
'Re: Feedback for Audrey Cook', 'Bryce,

I"ll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT

cc:

Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you  
complete her feedback by end of business Wednesday? It will really help me  
in the PRC process to have your input. Thanks.

');

INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com',  
'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as  
well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson

PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson

EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!

Casey');

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',  
'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,', 'Postings', 'Please see the

attached.

ds

');

INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james\_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn't sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL's work. Martin.

Martin B. Cominsky  
Director, Southwest Region  
Anti-Defamation League  
713/627-3490, ext. 122  
713/627-2011 (fax)  
MCominsky@aol.com');

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush's secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.

PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard  
Senior Legal Specialist  
Enron North America Corp.

Phone: (713) 853-3907  
Fax: (713) 646-3490  
marie.heard@enron.com

);  
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com',  
'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

);  
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j.bonin@enron.com',  
felicia.case@enron.com, b.clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', '  
Please contact me if you have any questions regarding last weeks prices.

Thank you,  
Karolyn Criado  
3-9441

);  
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com',  
'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our  
Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail  
risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.);  
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com',  
'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this  
tomorrow.

Stacy');  
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', ', 'hey  
big guy.....check this out.....

w ww.gorelieberman-2000.com/');  
INSERT INTO email([from],[to],subject,body) VALUES('k.allen@enron.com', 'jacqestc@aol.com', ', 'Jacques,

I sent you a fax of Kevin Kolb's comments on the release. The payoff on the note would be \$36,248  
(\$36090(principal) + \$158 (accrued interest)).



This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',  
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

- 1) "Adj L\_R" is the same data/format from the weekly strategy meeting.
- 2) "New Gen 2001\_2002" link has all of the supply side info that is used to calculate the L/R balance  
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson

Fundamental Analysis

Enron North America

(503) 464-8280

kourtney.nelson@enron.com');

INSERT INTO email([from],[to],subject,body) VALUES('d.thomas@enron.com', 'naveed.ahmed@enron.com',  
'FW: Current Enron TCC Portfolio', '

-----Original Message-----

From: Grace, Rebecca M.

Sent: Monday, December 17, 2001 9:44 AM

To: Thomas, Paul D.

Cc: Cashion, Jim; Allen, Thresa A.; May, Tom

Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY's list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----

From: Thomas, Paul D.  
Sent: Monday, December 17, 2001 9:08 AM  
To: Grace, Rebecca M.  
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>

Rebecca,  
Let me know if you see any differences.

Paul

X 3-0403

-----Original Message-----

From: Thomas, Paul D.  
Sent: Monday, December 17, 2001 9:04 AM  
To: Ahmed, Naveed  
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----

From: Thomas, Paul D.  
Sent: Thursday, December 13, 2001 10:01 AM  
To: Baughman, Edward D.  
Subject: Current Enron TCC Portfolio

');

INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',  
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',  
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,  
L.P., effective February 1, 2001, with the surviving entity being El Paso  
Merchant Energy, L.P. We currently have ISDA Master Agreements with both  
counterparties. Please see the attached memo regarding the existing Masters  
and let us know which agreement should be terminated.

Thanks,  
Stephanie

');

INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:  
What about this too???' , '

-----Original Message-----

From: Kenne, Dawn C.  
Sent: Wednesday, February 06, 2002 11:50 AM  
To: Keiser, Kam  
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

);

INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris

x31666);

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', ', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere

Enron North America Corp.

1400 Smith Street, EB 3885

Houston, Texas 77002

dperlin@enron.com

Phone 713-853-7658

Fax 713-646-3490);

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', ', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:

Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001

Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.

We got a request for guest access through MG.

The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as

soon as Enron has done the due diligence for this country.

Thanks !

Best regards

Diana Seifert

EOL PCG');

INSERT INTO email([from],[to],subject,body) VALUES('enron\_update@concuere workplace.com',  
'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the  
following report:

Status last changed by: Barry L. Tycholiz

Expense Report Name: 121001

Report Total: \$198.98

Amount Due Employee: \$198.98

Amount Approved: \$198.98

Amount Paid: \$0.00

Approval Status: Approved

Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.

<http://expensexms.enron.com>');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', ', 'Technical Support', 'Outside  
the U.S., please refer to the list below:

Australia:

1800 678-515

[support@palm-au.com](mailto:support@palm-au.com)

Canada:

1905 305-6530

[support@palm.com](mailto:support@palm.com)

New Zealand:

0800 446-398

[support@palm-nz.com](mailto:support@palm-nz.com)

U.K.:

0171 867 0108

[eurosupport@palm.3com.com](mailto:eurosupport@palm.3com.com)

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com',  
'RE:', 'duke contact?

-----Original Message-----

From: Quigley, Dutch  
Sent: Wednesday, October 31, 2001 10:14 AM  
To: Storey, Geoff  
Subject: RE:

bp corp Albert LaMore 281-366-4962

running the reports now

-----Original Message-----

From: Storey, Geoff  
Sent: Wednesday, October 31, 2001 10:10 AM  
To: Quigley, Dutch  
Subject: RE:

give me a contact over there too  
BP

-----Original Message-----

From: Quigley, Dutch  
Sent: Wednesday, October 31, 2001 9:42 AM  
To: Storey, Geoff  
Subject:

Coral Jeff Whitnah 713-767-5374

Relaint Steve McGinn 713-207-4000);

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start  
Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary  
schedules awarded.

Variances detected.

Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final  
Schedules\2001042203.txt

---- Load Schedule ----

\$\$\$ Variance found in table tblLoads.

Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)

TRANS\_TYPE: FINAL

LOAD\_ID: PGE4

MKT\_TYPE: 2

TRANS\_DATE: 4/22/01

SC\_ID: EPMI

```
);
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost
here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to
get everything in order just in case something happens.
```

```
John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I'm seeing Glen at
11:15....talk to you');
```

```
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', ', 'Lite Bytz RSVP', '
This week's Lite Bytz presentation will feature the following TOOLZ speaker:
```

Richard McDougall  
Solaris 8  
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to [litebytz@enron.com](mailto:litebytz@enron.com) by the end of the day Tuesday, June 5, 2001.

\*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

```
http://home.enron.com:84/messaging/litebytztoolzprint.jpg);
COMMIT;
}
} {}
```

```

Everything above just builds an interesting test database. The actual
tests come after this comment.
#####
```

```
do_test fts1c-1.2 {
 execsql {
 SELECT rowid FROM email WHERE email MATCH 'mark'
 }
} {6 17 25 38 40 42 73 74}
do_test fts1c-1.3 {
 execsql {
 SELECT rowid FROM email WHERE email MATCH 'susan'
 }
} {24 40}
do_test fts1c-1.4 {
 execsql {
```

```

SELECT rowid FROM email WHERE email MATCH 'mark susan'
}
} {40}
do_test fts1c-1.5 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'susan mark'
}
} {40}
do_test fts1c-1.6 {
execsql {
SELECT rowid FROM email WHERE email MATCH "'mark susan'"
}
} {}
do_test fts1c-1.7 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'mark -susan'
}
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
execsql {
SELECT rowid FROM email WHERE email MATCH '-mark susan'
}
} {24}
do_test fts1c-1.9 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
}
} {6 17 24 25 38 40 42 73 74}

```

```

Some simple tests of the automatic "offsets(email)" column. In the sample
data set above, only one message, number 20, contains the words
"gas" and "reminder" in both body and subject.
#

```

```

do_test fts1c-2.1 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.2 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'subject:gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts1c-2.3 {
execsql {
SELECT rowid, offsets(email) FROM email

```

```

WHERE email MATCH 'body:gas reminder'
}
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts1c-2.4 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE subject MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8}}
do_test fts1c-2.5 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE body MATCH 'gas reminder'
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

Document 32 contains 5 instances of the world "child". But only
3 of them are paired with "product". Make sure only those instances
that match the phrase appear in the offsets(email) list.
#
do_test fts1c-3.1 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts1c-3.2 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE body MATCH "'child product'"
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

Snippet generator tests
#
do_test fts1c-4.1 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder}}
do_test fts1c-4.2 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'christmas candlelight'
}
} {{... place.? What do you think about going here Christmas
eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,

```



among others. <b>...</b>}}

```
do_test fts1c-4.3 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture Deal Sheet ... intent
 Review Enron asset base for potential reuse/ licensing
 Contract negotiations ...}}
```

```
do_test fts1c-4.4 {
 execsql {
 SELECT snippet(email,'<<<','>>>',') FROM email
 WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
 Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
 Contract negotiations }}
```

```
do_test fts1c-4.5 {
 execsql {
 SELECT snippet(email,'<<<','>>>',') FROM email
 WHERE email MATCH 'first things'
 }
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}
```

```
do_test fts1c-4.6 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'chris is here'
 }
} {{chris.germany@enron.com ... Sounds good to me. I bet this is next to the Warick??
Hotel. ... place.? What do you think about going here Christmas
eve?? They have an 11:00 a.m. ...}}
```

```
do_test fts1c-4.7 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH "'pursuant to'"
 }
} {{Erin:
```

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}

```
do_test fts1c-4.8 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'ancillary load davis'
 }
} {{pete.davis@enron.com ... Start Date: 4/22/01; HourAhead hour: 3; No ancillary
schedules awarded.
Variances detected.
```

Variances detected in <b>Load</b> schedule.

LOG MESSAGES:

PARSING <b>...</b>}}

# Combinations of AND and OR operators:

#

do\_test fts1c-5.1 {

  execsql {

    SELECT snippet(email) FROM email

    WHERE email MATCH 'questar enron OR com'

  }

} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts

15 <b>Questar</b> Pipeline

40 Rockies Production

22 West\_2 <b>...</b>}}

do\_test fts1c-5.2 {

  execsql {

    SELECT snippet(email) FROM email

    WHERE email MATCH 'enron OR com questar'

  }

} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts

15 <b>Questar</b> Pipeline

40 Rockies Production

22 West\_2 <b>...</b>}}

finish\_test

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/fts1c.test

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

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

Copyright 1987-2006 Adobe Systems Incorporated.

Copyright 1987-2004 Adobe Systems Incorporated.

Copyright 1987-2001 Adobe Systems Incorporated.

Found in path(s):

\* %%Copyright

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

%%Copyright: Copyright(C)2000-2006 Adobe Systems, Inc. All Rights Reserved.

%%Copyright: Copyright(C)1997-2007 Adobe Systems, Inc. All Rights Reserved.

%%BeginResource: procset Adobe\_CoolType\_Core 2.31 0

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/art/sqlite370.eps

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

SQLite is open source, and is available in the public domain

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/books.html

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

application code is free to use these routines as well, if desired.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/34to35.html

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

MMFauxFont.prc

Found in path(s):

\* %%BeginFile

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

<html>

<body bgcolor="white">

<p>FOR IMMEDIATE RELEASE:</p>

<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

<h3 align="center">Ensures independent technical direction for world's most deployed SQL database engine</h3>

<p><b>Charlotte, North Carolina - December 12, 2007</b> - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.</p>

<p>SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones,

MP3 players, set-top boxes, and PCs.</p>

<p>The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.</p>

<p>Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.</p>

<p>"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."</p>

<p>"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development, " said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."</p>

<p>SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, <http://www.sqlite.org/>.</p>

<center>  
# # #  
</center>

<p><b>About SQLite</b></p>

<p>SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.</p>

<p>SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.</p>

<p>  
CONTACT INFORMATION:<br>  
SQLite Consortium<br>  
Dr. D. Richard Hipp<br>  
6200 Maple Cove Lane<br>  
Charlotte, NC 28269<br>  
Email: drh@sqlite.org<br>  
<http://www.sqlite.org/><br>  
Tel: +1.704.948.4565  
</p>

<p><b>About Mozilla</b></p>

<p>Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit [www.mozilla.com](http://www.mozilla.com).</p>

<p>CONTACT INFORMATION:<br>  
Mozilla Corporation<br>  
Jessica Waight<br>  
Tel: +1.415.345.4754<br>  
Email: [jwaight@outcastpr.com](mailto:jwaight@outcastpr.com)  
</p>

<p><b>About Symbian Limited</b></p>

<p>Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.</p>

<p>Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.</p>

<p>Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit [www.symbian.com](http://www.symbian.com).</p>

<p>CONTACT INFORMATION:<br>

Symbian Global Press Office<br>

Karen Hamblen<br>

+44 207 154 1707<br>

press@symbian.com

</p>

</body></html>

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/pressrelease-20071212.html

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

<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/requirements.html

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

SQLite core and like the SQLite core are in the public domain. The

The <b><a href="th3.html">TH3</a></b> test harness is a set of proprietary tests, written in

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/testing.html

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

/\*

\*\* Return a pointer to the "temporary page" buffer held internally  
\*\* by the pager. This is a buffer that is big enough to hold the  
\*\* entire content of a database page. This buffer is used internally  
\*\* during rollback and will be overwritten whenever a rollback  
\*\* occurs. But other modules are free to use it too, as long as  
\*\* no rollbacks are happening.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/pager.c

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

application is free to use the same <a href="..c3ref/sqlite3.html">database connection</a> or the

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-

archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/c3ref/c\_config\_covering\_index\_scan.html

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

```
/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain. The original comments are included here for
** completeness. They are very out-of-date but might be useful as
** an historical reference. Most of the "enhancements" have been backed
** out so that the functionality is now the same as standard printf().
**

**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/printf.c

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

other proprietary or non-standard VFSes.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/uri.html

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

```
<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">
SQLite Consortium Agreement
</h1>
```

```
<p>This SQLite Consortium Agreement ("Agreement") is made and
entered into as of the ____ day of _____, 2007 ("Effective Date")
by and between _____ (the "Company"), and
Hipp, Wyrick & Company, Inc., a Georgia Corporation with
headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>
```

```
<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public
domain SQL database engine available at
```

<http://www.sqlite.org/>  
("SQLite"); and

WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

## 1.0 Definitions

### 1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

### 1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

### 1.3 Consortium Member

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

## 2.0 Agreement

### 2.1 Responsibilities And Obligations Of SQLite Developers

#### 2.1.1 General Support

The SQLite Developers shall provide, without limit,



timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

#### 2.1.2 Debugging Support

The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

#### 2.1.3 Custom Development

The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

#### 2.1.4 Custom Builds

The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

#### 2.1.5 Legacy Support

The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.

#### 2.1.6 Custom Testing

The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

#### 2.1.7 Priority Bug Fixes

The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.

#### <h4>2.1.8 Code Quality</h4>

<p>The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.</p>

#### <h4>2.1.9 Backwards Compatibility</h4>

<p>The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.</p>

#### <h4>2.1.10 Test Coverage</h4>

<p>The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.</p>

#### <h4>2.1.11 Website</h4>

<p>The SQLite Developers shall maintain the SQLite website at <a href="http://www.sqlite.org">http://www.sqlite.org</a> in good working order and all SQLite source code shall be made freely available at such website.</p>

### <h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

#### <h4>2.2.1 Private Briefings</h4>

<p>The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.</p>

#### <h4>2.2.2 Direction</h4>

<p>The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.</p>

#### <h4>2.2.3 Oversight</h4>

<p>The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.</p>

#### <h4>2.2.4 Continuity</h4>

<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.</p></p>

### <h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

#### <h4>2.3.1 Employer</h4>

<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.</p></p>

#### <h4>2.3.2 Responsible Party</h4>

<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.</p></p>

#### <h4>2.3.3 Multiple Developers</h4>

<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p></p>

#### <h4>2.3.4 Mentorship</h4>

<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.</p></p>

#### <h4>2.3.5 Audits</h4>

<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.</p></p>

</p>

#### <h4>2.3.6 Disaster Planning</h4>

<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.

</p>

#### <h4>2.3.7 Trademark</h4>

<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the <a href="http://www.sqlite.org/">http://www.sqlite.org/</a> website.

</p>

#### <h4>2.3.8 No Take-overs or Buy-outs</h4>

<p>Neither Hwaci nor the SQLite Architect shall relinquish development control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.

</p>

#### <h4>2.3.9 New Consortium Members</h4>

<p>New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.</p>

#### <h4>2.3.10 Adequate Staff</h4>

Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.

</p>

#### <h4>2.3.11 Use Of Funds</h4>

<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement.

Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

</p>

### <h3>2.4 Responsibilities And Obligations Of Company</h3>

#### <h4>2.4.1 Funding</h4>

<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".

</p>

#### <h4>2.4.2 Copyright Disclaimer</h4>

<p>Company acknowledges that SQLite source code and documentation published on the <a href="http://www.sqlite.org/">SQLite website</a> is in the public domain and that nothing in this agreement shall change that fact.

</p>

## <h2>3.0 Fees</h2>

<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US \$75,000 per year in advance either annually, quarterly, or monthly, at Company's discretion.</p>

## <h2>4.0 Confidentiality</h2>

### <h3>4.1 Definition of Confidential Information</h3>

<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.</p>

### <h3>4.2 Non-Use and Non-Disclosure.</h3>

<p>Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include

information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.</p>

#### <h4>4.2.1 Disclosure Required by Law</h4>

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.</p>

### <h3>4.3 Return of Materials.</h3>

<p>Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci may have in Hwaci's possession or control.</p>

## <h2>5.0 Intellectual Property</h2>

### <h3>5.1 No Assignment</h3>

<p>Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.</p>

### <h3>5.2 Availability and Public Domain Dedication</h3>

<p>The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain.

To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers' and Hwaci's rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.</p>

### <h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.</p>

## <h2>6.0 Representations And Warranties</h2>

### <h3>6.1 Intellectual Property Clearances.</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.</p>

### <h3>6.2 Disclaimer.</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL

OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>

## <h2>7.0 Term And Termination</h2>

### <h3>7.1 Term.</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.</p>

### <h3>7.2 Termination.</h3>

<p>If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.</p>

### <h3>7.3 Survival.</h3>

<p>Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.</p>

## <h2>8. Miscellaneous</h2>

### <h3>8.1 Nonassignment/Binding Agreement.</h3>

<p>The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and



their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.</p>

### <h3>8.2 Notices.</h3>

<p>Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.</p>

### <h3>8.3 Waiver.</h3>

<p>Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.</p>

### <h3>8.4 Severability.</h3>

<p>If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.</p>

### 8.5 Integration.

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.

### 8.6 Counterparts.

This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.

### 8.7 Governing Law.

This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.

### 8.8 Independent Contractors.

It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.

## 9.0 Signatures

The parties have executed this Agreement below to indicate their acceptance of its terms.

HWACI
By: _____
Print Name: _____

<p>&nbsp;</p>  
Title:<hr>  
<p>&nbsp;</p>  
</td><td width="10%"></td>  
<td valign="top">  
COMPANY<br>  
By:<hr>  
<p>&nbsp;</p>  
Print Name:<hr>  
<p>&nbsp;</p>  
Title:<hr>  
<p>&nbsp;</p>  
</td></tr></table>

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-  
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-  
3071700/consortium\_agreement-20071201.html

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

/\*

\*\* 2004 May 22

\*\*

\*\* The author disclaims copyright to this source code. In place of  
\*\* a legal notice, here is a blessing:

\*\*

\*\* May you do good and not evil.

\*\* May you find forgiveness for yourself and forgive others.

\*\* May you share freely, never taking more than you give.

\*\*

\*\*\*\*\*

\*\*

\*\* This file contains the VFS implementation for unix-like operating systems  
\*\* include Linux, MacOSX, \*BSD, QNX, VxWorks, AIX, HPUX, and others.

\*\*

\*\* There are actually several different VFS implementations in this file.  
\*\* The differences are in the way that file locking is done. The default  
\*\* implementation uses Posix Advisory Locks. Alternative implementations  
\*\* use flock(), dot-files, various proprietary locking schemas, or simply  
\*\* skip locking all together.

\*\*

\*\* This source file is organized into divisions where the logic for various  
\*\* subfunctions is contained within the appropriate division. PLEASE  
\*\* KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed  
\*\* in the correct division and should be clearly labeled.

\*\*

\*\* The layout of divisions is as follows:

\*\*

```

** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
** + for Posix Advisory Locks
** + for no-op locks
** + for dot-file locks
** + for flock() locking
** + for named semaphore locks (VxWorks only)
** + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
** methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
** plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/os_unix.c
No license file was found, but licenses were detected in source scan.

```

```

/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
* This code is in the public domain; do with it what you wish.
*
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/tclsqlite.c
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/threadtest3.c
No license file was found, but licenses were detected in source scan.

```

2.31 0

1.23 0

1.0 0

Found in path(s):

\* %%Version

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

<p><b>Public domain</b></p>

The source code for SQLite is in the public domain. No claim of copyright

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/different.html

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

<a href="http://en.wikipedia.org/wiki/Public\_Domain">Public Domain</a>

<a href="http://en.wikipedia.org/wiki/Public\_Domain">public domain</a>

the public domain and originals of

author, and all of those authors have public domain dedications

Even though SQLite is in the public domain and does not require

the public domain. </li>

their contributions to the public domain.

in this code to the public domain. We make this dedication for the benefit

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/copyright.html

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

# 2001 September 15

#

# The author disclaims copyright to this source code. In place of

# a legal notice, here is a blessing:

#

# May you do good and not evil.

# May you find forgiveness for yourself and forgive others.

# May you share freely, never taking more than you give.

#

\*\*\*\*\*

# This file implements regression tests for SQLite library. The

# focus of this file is testing built-in functions.

#

set testdir [file dirname \$argv0]

source \$testdir/tester.tcl

# Create a table to work with.

#

```

do_test func-0.0 {
 execsql {CREATE TABLE tbl1(t1 text)}
 foreach word {this program is free software} {
 execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}
do_test func-0.1 {
 execsql {
 CREATE TABLE t2(a);
 INSERT INTO t2 VALUES(1);
 INSERT INTO t2 VALUES(NULL);
 INSERT INTO t2 VALUES(345);
 INSERT INTO t2 VALUES(NULL);
 INSERT INTO t2 VALUES(67890);
 SELECT * FROM t2;
 }
} {1 {} 345 {} 67890}

Check out the length() function
#
do_test func-1.0 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}
do_test func-1.1 {
 set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
 set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
 lappend r $msg
} {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
 execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
 ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
 execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

Check out the substr() function
#
do_test func-2.0 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
 execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}

```

```

do_test func-2.2 {
 execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
 execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
 execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
 execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
 execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
 execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
 execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
 execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
 execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

```

# Only do the following tests if TCL has UTF-8 capabilities

#

```
if {"\u1234"!="u1234"} {
```

# Put some UTF-8 characters in the database

#

```

do_test func-3.0 {
 execsql {DELETE FROM tbl1}
 foreach word "contains UTF-8 characters hi\u1234ho" {
 execsql "INSERT INTO tbl1 VALUES('$word')"
 }
 execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
 execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
 execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {

```

```

execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"
do_test func-3.5 {
execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"
do_test func-3.6 {
execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain i\u1234h"
do_test func-3.99 {
execsql {DELETE FROM tbl1}
foreach word {this program is free software} {
execsql "INSERT INTO tbl1 VALUES('$word')"
}
execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End \u1234!=u1234

Test the abs() and round() functions.
#
ifcapable !floatingpoint {
do_test func-4.1 {
execsql {
CREATE TABLE t1(a,b,c);
INSERT INTO t1 VALUES(1,2,3);
INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
INSERT INTO t1 VALUES(3,-2,-5);
}
catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
do_test func-4.1 {

```



```

execsql {
 CREATE TABLE t1(a,b,c);
 INSERT INTO t1 VALUES(1,2,3);
 INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
 INSERT INTO t1 VALUES(3,-2,-5);
}
catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
do_test func-4.2 {
 catchsql {SELECT abs() FROM t1}
} {1 {wrong number of arguments to function abs()}}
ifcapable floatingpoint {
 do_test func-4.3 {
 catchsql {SELECT abs(b) FROM t1 ORDER BY a}
 } {0 {2 1.2345678901234 2}}
 do_test func-4.4 {
 catchsql {SELECT abs(c) FROM t1 ORDER BY a}
 } {0 {3 12345.6789 5}}
}
ifcapable !floatingpoint {
 if {[working_64bit_int]} {
 do_test func-4.3 {
 catchsql {SELECT abs(b) FROM t1 ORDER BY a}
 } {0 {2 12345678901234 2}}
 }
 do_test func-4.4 {
 catchsql {SELECT abs(c) FROM t1 ORDER BY a}
 } {0 {3 1234567890 5}}
}
do_test func-4.4.1 {
 execsql {SELECT abs(a) FROM t2}
} {1 {} 345 {} 67890}
do_test func-4.4.2 {
 execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}

ifcapable floatingpoint {
 do_test func-4.5 {
 catchsql {SELECT round(a,b,c) FROM t1}
 } {1 {wrong number of arguments to function round()}}
 do_test func-4.6 {
 catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
 } {0 {-2.0 1.23 2.0}}
 do_test func-4.7 {
 catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
 } {0 {2.0 1.0 -2.0}}
 do_test func-4.8 {

```

```

catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3.0 -12346.0 -5.0}}
do_test func-4.9 {
catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 {3.0 -12345.68 -5.0}}
do_test func-4.10 {
catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.0y}}
do_test func-4.11 {
catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
execsql {SELECT round(t1,2) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
execsql {SELECT typeof(round(5.1,1));}
} {real}
do_test func-4.15 {
execsql {SELECT typeof(round(5.1));}
} {real}
do_test func-4.16 {
catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
} {0 {-2.0 1.23 2.0}}
Verify some values reported on the mailing list.
Some of these fail on MSVC builds with 64-bit
long doubles, but not on GCC builds with 80-bit
long doubles.
for {set i 1} {$i<999} {incr i} {
set x1 [expr 40222.5 + $i]
set x2 [expr 40223.0 + $i]
do_test func-4.17.$i {
execsql {SELECT round($x1);}
} $x2
}
for {set i 1} {$i<999} {incr i} {
set x1 [expr 40222.05 + $i]
set x2 [expr 40222.10 + $i]
do_test func-4.18.$i {
execsql {SELECT round($x1,1);}
} $x2
}
do_test func-4.20 {
execsql {SELECT round(40223.499999999);}
} {40223.0}
do_test func-4.21 {

```

```

execsql {SELECT round(40224.4999999999);}
} {40224.0}
do_test func-4.22 {
execsql {SELECT round(40225.4999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
do_test func-4.23.$i {
execsql {SELECT round(40223.4999999999,$i);}
} {40223.5}
do_test func-4.24.$i {
execsql {SELECT round(40224.4999999999,$i);}
} {40224.5}
do_test func-4.25.$i {
execsql {SELECT round(40225.4999999999,$i);}
} {40225.5}
}
for {set i 10} {$i<32} {incr i} {
do_test func-4.26.$i {
execsql {SELECT round(40223.4999999999,$i);}
} {40223.4999999999}
do_test func-4.27.$i {
execsql {SELECT round(40224.4999999999,$i);}
} {40224.4999999999}
do_test func-4.28.$i {
execsql {SELECT round(40225.4999999999,$i);}
} {40225.4999999999}
}
do_test func-4.29 {
execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
execsql {SELECT round(12345678901.5);}
} {12345678902.0}
do_test func-4.31 {
execsql {SELECT round(123456789012.5);}
} {123456789013.0}
do_test func-4.32 {
execsql {SELECT round(1234567890123.5);}
} {1234567890124.0}
do_test func-4.33 {
execsql {SELECT round(12345678901234.5);}
} {12345678901235.0}
do_test func-4.34 {
execsql {SELECT round(1234567890123.35,1);}
} {1234567890123.4}
do_test func-4.35 {
execsql {SELECT round(1234567890123.445,2);}
} {1234567890123.45}

```

```
do_test func-4.36 {
 execsql {SELECT round(99999999999994.5);}
} {99999999999995.0}
do_test func-4.37 {
 execsql {SELECT round(999999999999.55,1);}
} {999999999999.6}
do_test func-4.38 {
 execsql {SELECT round(999999999999.556,2);}
} {999999999999.56}
}

Test the upper() and lower() functions
#
do_test func-5.1 {
 execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
 execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
 execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
ifcapable !icu {
 do_test func-5.4 {
 catchesql {SELECT upper(a,5) FROM t2}
 } {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
 catchesql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

Test the coalesce() and nullif() functions
#
do_test func-6.1 {
 execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
 execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
 execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
 execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
 execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}
```

```

Test the last_insert_rowid() function
#
do_test func-7.1 {
 execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
do_test func-8.1 {
 ifcapable explain {
 execsql {EXPLAIN SELECT sum(a) FROM t2;}
 }
 execsql {
 SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
 }
} {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
do_test func-8.1 {
 ifcapable explain {
 execsql {EXPLAIN SELECT sum(a) FROM t2;}
 }
 execsql {
 SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
 }
} {68236 3 22745.0 1 67890 5}
}
do_test func-8.2 {
 execsql {
 SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzaabcdefghijklmnop') FROM t2;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzaabcdefghijklmnop}

ifcapable tempdb {
do_test func-8.3 {
 execsql {
 CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
 SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzaabcdefghijklmnop') FROM t3;
 }
} {z+1abcdefghijklmnopqrstuvwxyzaabcdefghijklmnop}
} else {
do_test func-8.3 {
 execsql {
 CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
 SELECT min('z+'||a||'abcdefghijklmnopqrstuvwxyzaabcdefghijklmnop') FROM t3;
 }
}
}

```

```

 }
 } {z+1abcdefghijklmnopqrstuvwxyzaBCDEFGHIJKLMNOP}
}
do_test func-8.4 {
 execsql {
 SELECT max('z+'||a||'abcdefghijklmnopqrstuvwxyzaBCDEFGHIJKLMNOP') FROM t3;
 }
} {z+67890abcdefghijklmnopqrstuvwxyzaBCDEFGHIJKLMNOP}
ifcapable compound {
 do_test func-8.5 {
 execsql {
 SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
 UNION ALL SELECT -9223372036854775807)
 }
 } {0}
 do_test func-8.6 {
 execsql {
 SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
 UNION ALL SELECT -9223372036854775807)
 }
 } {integer}
 do_test func-8.7 {
 execsql {
 SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
 UNION ALL SELECT -9223372036854775807)
 }
 } {real}
 ifcapable floatingpoint {
 do_test func-8.8 {
 execsql {
 SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
 UNION ALL SELECT -922337203685000000)
 }
 } {1}
 }
 ifcapable !floatingpoint {
 do_test func-8.8 {
 execsql {
 SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
 UNION ALL SELECT -922337203685000000)
 }
 } {1}
 }
}
How do you test the random() function in a meaningful, deterministic way?
#
do_test func-9.1 {

```

```

execsql {
 SELECT random() is not null;
}
} {1}
do_test func-9.2 {
 execsql {
 SELECT typeof(random());
 }
} {integer}
do_test func-9.3 {
 execsql {
 SELECT randblob(32) is not null;
 }
} {1}
do_test func-9.4 {
 execsql {
 SELECT typeof(randblob(32));
 }
} {blob}
do_test func-9.5 {
 execsql {
 SELECT length(randblob(32)), length(randblob(-5)),
 length(randblob(2000))
 }
} {32 1 2000}

The "hex()" function was added in order to be able to render blobs
generated by randblob(). So this seems like a good place to test
hex().
#
ifcapable bloblit {
 do_test func-9.10 {
 execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF')}
 } {00112233445566778899AABBCCDDEEFF}
}
set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
 do_test func-9.11-utf16le {
 execsql {SELECT hex(replace('abcdefg','ef','12'))}
 } {6100620063006400310032006700}
 do_test func-9.12-utf16le {
 execsql {SELECT hex(replace('abcdefg','','12'))}
 } {6100620063006400650066006700}
 do_test func-9.13-utf16le {
 execsql {SELECT hex(replace('abcdefg','a','aaa'))}
 } {610061006100610061006100620063006400650066006700}
} elseif {$encoding=="UTF-8"} {
 do_test func-9.11-utf8 {

```

```

 execsql {SELECT hex(replace('abcdefg','ef','12'))}
 } {61626364313267}
do_test func-9.12-utf8 {
 execsql {SELECT hex(replace('abcdefg','', '12'))}
 } {61626364656667}
do_test func-9.13-utf8 {
 execsql {SELECT hex(replace('abcdefg','a','aaa'))}
 } {61616161616161626364656667}
}

Use the "sqlite_register_test_function" TCL command which is part of
the text fixture in order to verify correct operation of some of
the user-defined SQL function APIs that are not used by the built-in
functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
 catchsql {
 SELECT testfunc(NULL,NULL);
 }
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
 execsql {
 SELECT testfunc(
 'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
 'int', 1234
);
 }
} {1234}
do_test func-10.3 {
 execsql {
 SELECT testfunc(
 'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
 'string', NULL
);
 }
} {{{}}

ifcapable floatingpoint {
do_test func-10.4 {
 execsql {
 SELECT testfunc(
 'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
 'double', 1.234
);
 }
} {1.234}

```



```

do_test func-10.5 {
 execsql {
 SELECT testfunc(
 'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
 'int', 1234,
 'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
 'string', NULL,
 'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
 'double', 1.234,
 'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
 'int', 1234,
 'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
 'string', NULL,
 'string', 'abcdefghijklmnopqrstuvwxyABCDEFGHIJKLMNOPQRSTUVWXYZ',
 'double', 1.234
);
 }
} {1.234}
}

```

# Test the built-in `sqlite_version(*)` SQL function.

#

```

do_test func-11.1 {
 execsql {
 SELECT sqlite_version(*)
 }
} [sqlite3 -version]

```

# Test that destructors passed to `sqlite3` by calls to `sqlite3_result_text()`

# etc. are called. These tests use two special user-defined functions

# (implemented in `func.c`) only available in test builds.

#

# Function `test_destructor()` takes one argument and returns a copy of the  
# text form of that argument. A destructor is associated with the return  
# value. Function `test_destructor_count()` returns the number of outstanding  
# destructor calls for values returned by `test_destructor()`.

#

```

if {[db eval {PRAGMA encoding}]=="UTF-8"} {
 do_test func-12.1-utf8 {
 execsql {
 SELECT test_destructor('hello world'), test_destructor_count();
 }
 } {{hello world} 1}
} else {
 ifcapable {utf16} {
 do_test func-12.1-utf16 {
 execsql {
 SELECT test_destructor16('hello world'), test_destructor_count();
 }
 }
 }
}

```

```

 }
 } {{hello world} 1}
}
do_test func-12.2 {
 execsql {
 SELECT test_destructor_count();
 }
} {0}
do_test func-12.3 {
 execsql {
 SELECT test_destructor('hello')||' world'
 }
} {{hello world}}
do_test func-12.4 {
 execsql {
 SELECT test_destructor_count();
 }
} {0}
do_test func-12.5 {
 execsql {
 CREATE TABLE t4(x);
 INSERT INTO t4 VALUES(test_destructor('hello'));
 INSERT INTO t4 VALUES(test_destructor('world'));
 SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
 }
} {hello world}
do_test func-12.6 {
 execsql {
 SELECT test_destructor_count();
 }
} {0}
do_test func-12.7 {
 execsql {
 DROP TABLE t4;
 }
} {}

```

# Test that the auxdata API for scalar functions works. This test uses  
# a special user-defined function only available in test builds,  
# test\_auxdata(). Function test\_auxdata() takes any number of arguments.

```

do_test func-13.1 {
 execsql {
 SELECT test_auxdata('hello world');
 }
} {0}

```

```

do_test func-13.2 {
 execsql {
 CREATE TABLE t4(a, b);
 INSERT INTO t4 VALUES('abc', 'def');
 INSERT INTO t4 VALUES('ghi', 'jkl');
 }
} {}
do_test func-13.3 {
 execsql {
 SELECT test_auxdata('hello world') FROM t4;
 }
} {0 1}
do_test func-13.4 {
 execsql {
 SELECT test_auxdata('hello world', 123) FROM t4;
 }
} {{0 0} {1 1}}
do_test func-13.5 {
 execsql {
 SELECT test_auxdata('hello world', a) FROM t4;
 }
} {{0 0} {1 0}}
do_test func-13.6 {
 execsql {
 SELECT test_auxdata('hello||'world', a) FROM t4;
 }
} {{0 0} {1 0}}

Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
 set DB [sqlite3_connection_pointer db]
 set sql "SELECT test_auxdata(?, a) FROM t4;"
 set STMT [sqlite3_prepare $DB $sql -1 TAIL]
 sqlite3_bind_text $STMT 1 hello\000 -1
 set res [list]
 while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
 lappend res [sqlite3_column_text $STMT 0]
 }
 lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

Make sure that a function with a very long name is rejected
do_test func-14.1 {
 catch {
 db function [string repeat X 254] {return "hello"}
 }
} {0}
do_test func-14.2 {

```

```

catch {
 db function [string repeat X 256] {return "hello"}
}
} {1}

do_test func-15.1 {
 catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
 catchsql {select test_error('this is the error message')}
} {1 {this is the error message}}
do_test func-15.3 {
 catchsql {select test_error('this is the error message',12)}
} {1 {this is the error message}}
do_test func-15.4 {
 db errorcode
} {12}

Test the quote function for BLOB and NULL values.
do_test func-16.1 {
 execsql {
 CREATE TABLE tbl2(a, b);
 }
 set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
 sqlite3_bind_blob $::STMT 1 abc 3
 sqlite3_step $::STMT
 sqlite3_finalize $::STMT
 execsql {
 SELECT quote(a), quote(b) FROM tbl2;
 }
} {X'616263' NULL}

Correctly handle function error messages that include %. Ticket #1354
#
do_test func-17.1 {
 proc testfunc1 args {error "Error %d with %s percents %p"}
 db function testfunc1 ::testfunc1
 catchsql {
 SELECT testfunc1(1,2,3);
 }
} {1 {Error %d with %s percents %p}}

The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
 execsql {
 CREATE TABLE t5(x);
 INSERT INTO t5 VALUES(1);
 }
}

```

```

INSERT INTO t5 VALUES(-99);
INSERT INTO t5 VALUES(10000);
SELECT sum(x) FROM t5;
}
} {9902}
ifcapable floatingpoint {
do_test func-18.2 {
execsql {
INSERT INTO t5 VALUES(0.0);
SELECT sum(x) FROM t5;
}
} {9902.0}
}

The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
execsql {
DELETE FROM t5;
SELECT sum(x), total(x) FROM t5;
}
} {{} 0.0}
do_test func-18.4 {
execsql {
INSERT INTO t5 VALUES(NULL);
SELECT sum(x), total(x) FROM t5
}
} {{} 0.0}
do_test func-18.5 {
execsql {
INSERT INTO t5 VALUES(NULL);
SELECT sum(x), total(x) FROM t5
}
} {{} 0.0}
do_test func-18.6 {
execsql {
INSERT INTO t5 VALUES(123);
SELECT sum(x), total(x) FROM t5
}
} {123 123.0}

Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
an error. The non-standard TOTAL() function continues to give a helpful
result.
#
do_test func-18.10 {

```

```

execsql {
 CREATE TABLE t6(x INTEGER);
 INSERT INTO t6 VALUES(1);
 INSERT INTO t6 VALUES(1<<62);
 SELECT sum(x) - ((1<<62)+1) from t6;
}
} 0
do_test func-18.11 {
 execsql {
 SELECT typeof(sum(x)) FROM t6
 }
} integer
ifcapable floatingpoint {
 do_test func-18.12 {
 catchsql {
 INSERT INTO t6 VALUES(1<<62);
 SELECT sum(x) - ((1<<62)*2.0+1) from t6;
 }
 } {1 {integer overflow}}
 do_test func-18.13 {
 execsql {
 SELECT total(x) - ((1<<62)*2.0+1) FROM t6
 }
 } 0.0
}
ifcapable !floatingpoint {
 do_test func-18.12 {
 catchsql {
 INSERT INTO t6 VALUES(1<<62);
 SELECT sum(x) - ((1<<62)*2+1) from t6;
 }
 } {1 {integer overflow}}
 do_test func-18.13 {
 execsql {
 SELECT total(x) - ((1<<62)*2+1) FROM t6
 }
 } 0.0
}
if {[working_64bit_int]} {
 do_test func-18.14 {
 execsql {
 SELECT sum(-9223372036854775805);
 }
 } -9223372036854775805
}
ifcapable compound&&subquery {

 do_test func-18.15 {

```

```

catchsql {
 SELECT sum(x) FROM
 (SELECT 9223372036854775807 AS x UNION ALL
 SELECT 10 AS x);
}
} {1 {integer overflow}}
if {[working_64bit_int]} {
do_test func-18.16 {
 catchsql {
 SELECT sum(x) FROM
 (SELECT 9223372036854775807 AS x UNION ALL
 SELECT -10 AS x);
 }
} {0 9223372036854775797}
do_test func-18.17 {
 catchsql {
 SELECT sum(x) FROM
 (SELECT -9223372036854775807 AS x UNION ALL
 SELECT 10 AS x);
 }
} {0 -9223372036854775797}
}
do_test func-18.18 {
 catchsql {
 SELECT sum(x) FROM
 (SELECT -9223372036854775807 AS x UNION ALL
 SELECT -10 AS x);
 }
} {1 {integer overflow}}
do_test func-18.19 {
 catchsql {
 SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
 }
} {0 -1}
do_test func-18.20 {
 catchsql {
 SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
 }
} {0 1}
do_test func-18.21 {
 catchsql {
 SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
 }
} {0 -1}
do_test func-18.22 {
 catchsql {
 SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
 }
}

```

```

} {0 1}

} ;# ifcapable compound&&subquery

Integer overflow on abs()
#
if {[working_64bit_int]} {
do_test func-18.31 {
catchsql {
SELECT abs(-9223372036854775807);
}
} {0 9223372036854775807}
}
do_test func-18.32 {
catchsql {
SELECT abs(-9223372036854775807-1);
}
} {1 {integer overflow}}

The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
execsql {
SELECT match(a,b) FROM t1 WHERE 0;
}
} {}
do_test func-19.2 {
catchsql {
SELECT 'abc' MATCH 'xyz';
}
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.3 {
catchsql {
SELECT 'abc' NOT MATCH 'xyz';
}
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.4 {
catchsql {
SELECT match(1,2,3);
}
} {1 {wrong number of arguments to function match()}}

Soundex tests.
#
if {![catch {db eval {SELECT soundex('hello')}}]} {
set i 0
foreach {name sdx} {
euler E460

```



```

EULER E460
Euler E460
ellery E460
gauss G200
ghosh G200
hilbert H416
Heilbronn H416
knuth K530
kant K530
Lloyd L300
LADD L300
Lukasiewicz L222
Lissajous L222
A A000
12345 ?000
} {
incr i
do_test func-20.$i {
 execsql {SELECT soundex($name)}
} $sdx
}
}

Tests of the REPLACE function.
#
do_test func-21.1 {
catchsql {
 SELECT replace(1,2);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
catchsql {
 SELECT replace(1,2,3,4);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
execsql {
 SELECT typeof(replace("This is the main test string", NULL, "ALT"));
}
} {null}
do_test func-21.4 {
execsql {
 SELECT typeof(replace(NULL, "main", "ALT"));
}
} {null}
do_test func-21.5 {
execsql {
 SELECT typeof(replace("This is the main test string", "main", NULL));
}
}

```

```

}
} {null}
do_test func-21.6 {
execsql {
 SELECT replace("This is the main test string", "main", "ALT");
}
} {{This is the ALT test string}}
do_test func-21.7 {
execsql {
 SELECT replace("This is the main test string", "main", "larger-main");
}
} {{This is the larger-main test string}}
do_test func-21.8 {
execsql {
 SELECT replace("aaaaaaa", "a", "0123456789");
}
} {0123456789012345678901234567890123456789012345678901234567890123456789}

ifcapable tclvar {
do_test func-21.9 {
 # Attempt to exploit a buffer-overflow that at one time existed
 # in the REPLACE function.
 set ::str "[string repeat A 29998]CC[string repeat A 35537]"
 set ::rep [string repeat B 65536]
 execsql {
 SELECT LENGTH(REPLACE($::str, 'C', $::rep));
 }
} [expr 29998 + 2*65536 + 35537]
}

Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
catchsql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {
catchsql {SELECT ltrim(1,2,3)}
} {1 {wrong number of arguments to function ltrim()}}
do_test func-22.3 {
catchsql {SELECT rtrim(1,2,3)}
} {1 {wrong number of arguments to function rtrim()}}
do_test func-22.4 {
execsql {SELECT trim(' hi ');}
} {hi}
do_test func-22.5 {
execsql {SELECT ltrim(' hi ');}
} {{hi }}
do_test func-22.6 {

```

```

execsql {SELECT rtrim(' hi ');}
} {{ hi}}
do_test func-22.7 {
execsql {SELECT trim(' hi ','xyz');}
} {{ hi }}
do_test func-22.8 {
execsql {SELECT ltrim(' hi ','xyz');}
} {{ hi }}
do_test func-22.9 {
execsql {SELECT rtrim(' hi ','xyz');}
} {{ hi }}
do_test func-22.10 {
execsql {SELECT trim('yxzy hi zzy','xyz');}
} {{ hi }}
do_test func-22.11 {
execsql {SELECT ltrim('yxzy hi zzy','xyz');}
} {{ hi zzy}}
do_test func-22.12 {
execsql {SELECT rtrim('yxzy hi zzy','xyz');}
} {{yxzy hi }}
do_test func-22.13 {
execsql {SELECT trim(' hi ','');}
} {{ hi }}
if {[db one {PRAGMA encoding}]=="UTF-8"} {
do_test func-22.14 {
execsql {SELECT hex(trim(x'c280e1bfbff48fbfbf6869',x'6162e1bfbfc280'))}
} {F48FBFBF6869}
do_test func-22.15 {
execsql {SELECT hex(trim(x'6869c280e1bfbff48fbfbf61',
x'6162e1bfbfc280f48fbfbf'))}
} {6869}
do_test func-22.16 {
execsql {SELECT hex(trim(x'ceb1ceb2ceb3',x'ceb1'));}
} {CEB2CEB3}
}
do_test func-22.20 {
execsql {SELECT typeof(trim(NULL));}
} {null}
do_test func-22.21 {
execsql {SELECT typeof(trim(NULL,'xyz'));}
} {null}
do_test func-22.22 {
execsql {SELECT typeof(trim('hello',NULL));}
} {null}

This is to test the deprecated sqlite3_aggregate_count() API.
#
ifcapable deprecated {

```

```

do_test func-23.1 {
 sqlite3_create_aggregate db
 execsql {
 SELECT legacy_count() FROM t6;
 }
} {3}
}

The group_concat() function.
#
do_test func-24.1 {
 execsql {
 SELECT group_concat(t1) FROM tbl1
 }
} {this,program,is,free,software}
do_test func-24.2 {
 execsql {
 SELECT group_concat(t1,'') FROM tbl1
 }
} {{this program is free software}}
do_test func-24.3 {
 execsql {
 SELECT group_concat(t1,' ' || rowid || ' ') FROM tbl1
 }
} {{this 2 program 3 is 4 free 5 software}}
do_test func-24.4 {
 execsql {
 SELECT group_concat(NULL,t1) FROM tbl1
 }
} {{{}}
do_test func-24.5 {
 execsql {
 SELECT group_concat(t1,NULL) FROM tbl1
 }
} {thisprogramisfree software}
do_test func-24.6 {
 execsql {
 SELECT 'BEGIN-'||group_concat(t1) FROM tbl1
 }
} {BEGIN-this,program,is,free,software}

Ticket #3179: Make sure aggregate functions can take many arguments.
None of the built-in aggregates do this, so use the md5sum() from the
test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres

```

```

set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
 append midargs ,/$i'
 append midres /$i
 set result [md5 \
 "this${midres}program${midres}is${midres}free${midres}software${midres}"]
 set sql "SELECT md5sum(t1$midargs) FROM tb11"
 do_test func-24.7.$i {
 db eval $::sql
 } $result
}

Ticket #3806. If the initial string in a group_concat is an empty
string, the separator that follows should still be present.
#
do_test func-24.8 {
 execsql {
 SELECT group_concat(CASE t1 WHEN 'this' THEN " ELSE t1 END) FROM tb11
 }
} {,program,is,free,software}
do_test func-24.9 {
 execsql {
 SELECT group_concat(CASE WHEN t1!='software' THEN " ELSE t1 END) FROM tb11
 }
} {,,,software}

Ticket #3923. Initial empty strings have a separator. But initial
NULLs do not.
#
do_test func-24.10 {
 execsql {
 SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tb11
 }
} {program,is,free,software}
do_test func-24.11 {
 execsql {
 SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tb11
 }
} {software}
do_test func-24.12 {
 execsql {
 SELECT group_concat(CASE t1 WHEN 'this' THEN "
 WHEN 'program' THEN null ELSE t1 END) FROM tb11
 }
} {,is,free,software}

```





```

do_test func-28.1 {
 db eval {
 CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
 }
 catchsql {
 INSERT INTO t28(x) VALUES(1);
 }
} {1 {unknown function: nosuchfunc()}}

Verify that the length() and typeof() functions do not actually load
the content of their argument.
#
do_test func-29.1 {
 db eval {
 CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
 INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
 INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
 INSERT INTO t29 VALUES(5, "hello", 7);
 }
 db close
 sqlite3 db test.db
 sqlite3_db_status db CACHE_MISS 1
 db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
 set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
 if {$x<5} {set x 1}
 set x
} {1}
do_test func-29.3 {
 db close
 sqlite3 db test.db
 sqlite3_db_status db CACHE_MISS 1
 db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permutation] != "mmap"} {
 do_test func-29.4 {
 set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
 if {$x>100} {set x many}
 set x
 } {many}
}
do_test func-29.5 {
 db close
 sqlite3 db test.db
 sqlite3_db_status db CACHE_MISS 1
 db eval {SELECT sum(length(x)) FROM t29}
} {1000009}

```



```

do_test func-29.6 {
 set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
 if {$x<5} {set x 1}
 set x
} {1}

do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode("\u00A2");}] 162
do_execsql_test func-30.3 [subst {SELECT unicode("\u20AC");}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$\u00A2\u20AC}]

for {set i 1} {$i<0xd800} {incr i 13} {
 do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xffffd} {incr i 17} {
 if {$i==0xfeff} continue
 do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
 do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

finish_test

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/func.test
No license file was found, but licenses were detected in source scan.

```

```

2006 October 1
#
The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:
#
May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.
#

This file implements regression tests for SQLite library. The
focus of this script is testing the FTS1 module, and in particular
the Porter stemmer.
#
$Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

```

```

If SQLITE_ENABLE_FTS1 is defined, omit this file.
ifcapable !fts1 {
 finish_test
 return
}

Test data for the Porter stemmer. The first word of each line
is the input. The second word is the desired output.
#
This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
There is no claim of copyright made on that page, but you should
probably contact the author (Martin Porter - the inventor of the
Porter Stemmer algorithm) if you want to use this test data in a
commercial product of some kind. The stemmer code in FTS1 is a
complete rewrite from scratch based on the algorithm specification
and does not contain any code under copyright.
#
set porter_test_data {
 a a
 aaron aaron
 abaissiez abaissiez
 abandon abandon
 abandoned abandon
 abase abas
 abash abash
 abate abat
 abated abat
 abatement abat
 abatements abat
 abates abat
 abbess abbess
 abbey abbei
 abbeys abbei
 abbominable abbomin
 abbot abbot
 abbots abbot
 abbreviated abbrevi
 abed ab
 abel abel
 aberga aberga
 abergavenny abergavenni
 abet abet
 abetting abet
 abhominable abhomin
 abhor abhor
 abhorrr abhorrr
 abhorred abhor

```

abhorring	abhor
abhors	abhor
abhorson	abhorson
abide	abid
abides	abid
abilities	abil
ability	abil
abject	abject
abjectly	abjectli
abjects	abject
abjur	abjur
abjure	abjur
able	abl
abler	abler
aboard	aboard
abode	abod
aboded	abod
abodements	abod
aboding	abod
abominable	abomin
abominably	abomin
abominations	abomin
abortive	abort
abortives	abort
abound	abound
abounding	abound
about	about
above	abov
abr	abr
abraham	abraham
abram	abram
abreast	abreast
abridg	abridg
abridge	abridg
abridged	abridg
abridgment	abridg
abroach	abroach
abroad	abroad
abrogate	abrog
abrook	abrook
abrupt	abrupt
abruption	abrupt
abruptly	abruptli
absence	absenc
absent	absent
absey	absei
absolute	absolut
absolutely	absolut

absolv	absolv
absolver	absolv
abstains	abstain
abstemious	abstemi
abstinence	abstin
abstract	abstract
absurd	absurd
absyrtus	absyrtu
abundance	abund
abundant	abund
abundantly	abundantli
abus	abu
abuse	abus
abused	abus
abuser	abus
abuses	abus
abusing	abus
abutting	abut
aby	abi
abysm	abysm
ac	ac
academe	academ
academes	academ
accent	accent
accents	accent
accept	accept
acceptable	accept
acceptance	accept
accepted	accept
accepts	accept
access	access
accessary	accessari
accessible	access
accidence	accid
accident	accid
accidental	accident
accidentally	accident
accidents	accid
accite	accit
accited	accit
accites	accit
acclamations	acclam
accommodate	accommod
accommodated	accommod
accommodation	accommod
accommodations	accommod
accommodo	accommodo
accompanied	acompani

accompany	acompani
accompanying	acompani
accomplices	accomplic
accomplish	accomplish
accomplished	accomplish
accomplishing	accomplish
accomplishment	accomplish
acompt	acompt
accord	accord
accordant	accord
accorded	accord
accordeth	accordeth
according	accord
accordingly	accordingli
accords	accord
accost	accost
accosted	accost
account	account
accountant	account
accounted	account
accounts	account
accoutred	accoutr
accoutrement	accoutr
accoutrements	accoutr
accrue	accru
accumulate	accumul
accumulated	accumul
accumulation	accumul
accurs	accur
accursed	accurs
accurst	accurst
accus	accu
accusation	accus
accusations	accus
accusative	accus
accusativo	accusativo
accuse	accus
accused	accus
accuser	accus
accusers	accus
accuses	accus
accuseth	accuseth
accusing	accus
accustom	accustom
accustomed	accustom
ace	ac
acerb	acerb
ache	ach

acheron	acheron
aches	ach
achiev	achiev
achieve	achiev
achieved	achiev
achievement	achiev
achievements	achiev
achiever	achiev
achieves	achiev
achieving	achiev
achilles	achil
aching	ach
achitophel	achitophel
acknowledg	acknowledg
acknowledge	acknowledg
acknowledged	acknowledg
acknowledgment	acknowledg
acknown	acknown
acold	acold
aconitum	aconitum
acordo	acordo
acorn	acorn
acquaint	acquaint
acquaintance	acquaint
acquainted	acquaint
acquaints	acquaint
acquir	acquir
acquire	acquir
acquisition	acquisit
acquit	acquit
acquittance	acquitt
acquittances	acquitt
acquitted	acquit
acre	acr
acres	acr
across	across
act	act
actaeon	actaeon
acted	act
acting	act
action	action
actions	action
actium	actium
active	activ
actively	activ
activity	activ
actor	actor
actors	actor

acts	act
actual	actual
acture	actur
acute	acut
acutely	acut
ad	ad
adage	adag
adallas	adalla
adam	adam
adamant	adam
add	add
added	ad
adder	adder
adders	adder
addeth	addeth
addict	addict
addicted	addict
addiction	addict
adding	ad
addition	addit
additions	addit
addle	addl
address	address
addressing	address
addrest	addrest
adds	add
adhere	adher
adheres	adher
adieu	adieu
adieus	adieu
adjacent	adjac
adjoin	adjoin
adjoining	adjoin
adjourn	adjourn
adjudg	adjudg
adjudged	adjudg
adjunct	adjunct
administer	administ
administration	administr
admir	admir
admirable	admir
admiral	admir
admiration	admir
admire	admir
admired	admir
admirer	admir
admiring	admir
admiringly	admiringli

admission	admiss
admit	admit
admits	admit
admittance	admitt
admitted	admit
admitting	admit
admonish	admonish
admonishing	admonish
admonishment	admonish
admonishments	admonish
admonition	admonit
ado	ado
adonis	adoni
adopt	adopt
adopted	adopt
adoptedly	adoptedli
adoption	adopt
adoptious	adopti
adopts	adopt
ador	ador
adoration	ador
adorations	ador
adore	ador
adorer	ador
adores	ador
adorest	adorest
adoreth	adoreth
adoring	ador
adorn	adorn
adorned	adorn
adornings	adorn
adornment	adorn
adorns	adorn
adown	adown
adramadio	adramadio
adrian	adrian
adriana	adriana
adriano	adriano
adriatic	adriat
adsum	adsum
adulation	adul
adulterate	adulter
adulterates	adulter
adulterers	adulter
adulteress	adulteress
adulteries	adulteri
adulterous	adulter
adultery	adulteri



adultress	adultress
advanc	advanc
advance	advanc
advanced	advanc
advancement	advanc
advancements	advanc
advances	advanc
advancing	advanc
advantage	advantag
advantageable	advantag
advantaged	advantag
advantageous	advantag
advantages	advantag
advantaging	advantag
advent	advent
adventur	adventur
adventure	adventur
adventures	adventur
adventuring	adventur
adventurous	adventur
adventurously	adventur
adversaries	adversari
adversary	adversari
adverse	advers
adversely	advers
adversities	advers
adversity	advers
advertis	adverti
advertise	advertis
advertised	advertis
advertisement	advertis
advertising	advertis
advice	advic
advis	advi
advise	advis
advised	advis
advisedly	advisedli
advises	advis
advisings	advis
advocate	advoc
advocation	advoc
aeacida	aeacida
aeacides	aeacid
aedile	aedil
aediles	aedil
aegeon	aegeon
aegion	aegion
aegles	aegl

aemelia	aemelia
aemilia	aemilia
aemilius	aemiliu
aeneas	aenea
aeolus	aeolu
aer	aer
aerial	aerial
aery	aeri
aesculapius	aesculapiu
aeson	aeson
aesop	aesop
aetna	aetna
afar	afar
afear	afear
afeard	afeard
affability	affabl
affable	affabl
affair	affair
affaire	affair
affairs	affair
affect	affect
affectation	affect
affectations	affect
affected	affect
affectedly	affectedli
affecteth	affecteth
affecting	affect
affection	affect
affectionate	affection
affectionately	affection
affections	affect
affects	affect
affeer	affeer
affianc	affianc
affiance	affianc
affianced	affianc
affied	affi
affin	affin
affined	affin
affinity	affin
affirm	affirm
affirmation	affirm
affirmatives	affirm
afflict	afflict
afflicted	afflict
affliction	afflict
afflictions	afflict
afflicts	afflict

afford	afford
affordeth	affordeth
affords	afford
affray	affrai
affright	affright
affrighted	affright
affrights	affright
affront	affront
affronted	affront
affy	affi
afield	afield
afire	afir
afloat	afloat
afoot	afoot
afore	afor
aforehand	aforehand
aforesaid	aforesaid
afraid	afraid
afresh	afresh
afric	afric
africa	africa
african	african
afront	afront
after	after
afternoon	afternoon
afterward	afterward
afterwards	afterward
ag	ag
again	again
against	against
agamemmon	agamemmon
agamemnon	agamemnon
agate	agat
agaz	agaz
age	ag
aged	ag
agenor	agenor
agent	agent
agents	agent
ages	ag
aggravate	aggrav
aggrief	aggrief
agile	agil
agincourt	agincourt
agitation	agit
aglet	aglet
agnize	agniz
ago	ago

agone	agon
agony	agoni
agree	agre
agreed	agre
agreeing	agre
agreement	agreement
agrees	agre
agrippa	agrippa
aground	aground
ague	agu
aguecheek	aguecheek
agued	agu
agueface	aguefac
agues	agu
ah	ah
aha	aha
ahungry	ahungri
ai	ai
aialvolio	aialvolio
aiaria	aiaria
aid	aid
aidance	aidanc
aidant	aidant
aided	aid
aiding	aid
aidless	aidless
aids	aid
ail	ail
aim	aim
aimed	aim
aimest	aimest
aiming	aim
aims	aim
ainsi	ainsi
aio	aio
air	air
aired	air
airless	airless
airs	air
airy	airi
ajax	ajax
akilling	akil
al	al
alabaster	alabast
alack	alack
alacrity	alacr
alarbus	alarbu
alarm	alarm

alarms	alarm
alarum	alarum
alarums	alarum
alas	ala
alb	alb
alban	alban
albans	alban
albany	albani
albeit	albeit
albion	albion
alchemist	alchemist
alchemy	alchemi
alcibiades	alcibiad
alcides	alcid
alder	alder
alderman	alderman
aldermen	aldermen
ale	al
alecto	alecto
alehouse	alehous
alehouses	alehous
alencon	alencon
alengon	alengon
aleppo	aleppo
ales	al
alewife	alewif
alexander	alexand
alexanders	alexand
alexandria	alexandria
alexandrian	alexandrian
alexas	alexa
alias	alia
alice	alic
alien	alien
aliena	aliena
alight	alight
alighted	alight
alights	alight
aliis	alii
alike	alik
alisander	alisand
alive	aliv
all	all
alla	alla
allay	allai
allayed	allai
allaying	allai
allayment	allay

allayments	allay
allays	allai
allegation	alleg
allegations	alleg
allege	alleg
alleged	alleg
allegiance	allegi
allegiant	allegi
alley	allei
alleys	allei
allhallowmas	allhallowma
alliance	allianc
allicholy	allicholi
allied	alli
allies	alli
alligant	allig
alligator	allig
allons	allon
allot	allot
allots	allot
allotted	allot
allottery	allotteri
allow	allow
allowance	allow
allowed	allow
allowing	allow
allows	allow
allur	allur
allure	allur
allurement	allur
alluring	allur
allusion	allus
ally	alli
allycholly	allycholli
almain	almain
almanac	almanac
almanack	almanack
almanacs	almanac
almighty	almighti
almond	almond
almost	almost
alms	alm
almsman	almsman
aloes	alo
aloft	aloft
alone	alon
along	along
alonso	alonso

aloof	aloof
aloud	aloud
alphabet	alphabet
alphabetical	alphabet
alphonso	alphonso
alps	alp
already	alreadi
also	also
alt	alt
altar	altar
altars	altar
alter	alter
alteration	alter
altered	alter
alters	alter
althaea	althaea
although	although
altitude	altitud
altogether	altogeth
alton	alton
alway	alwai
always	alwai
am	am
amaimon	amaimon
amain	amain
amaking	amak
amamon	amamon
amaz	amaz
amaze	amaz
amazed	amaz
amazedly	amazedli
amazedness	amazed
amazement	amaz
amazes	amaz
amazeth	amazeth
amazing	amaz
amazon	amazon
amazonian	amazonian
amazons	amazon
ambassador	ambassador
ambassadors	ambassador
amber	amber
ambiguides	ambiguid
ambiguities	ambigu
ambiguous	ambigu
ambition	ambit
ambitions	ambit
ambitious	ambiti

ambitiously	ambiti
amble	ambl
ambled	ambl
ambles	ambl
ambling	ambl
ambo	ambo
ambuscadoes	ambuscado
ambush	ambush
amen	amen
amend	amend
amended	amend
amendment	amend
amends	amend
amerce	amerc
america	america
ames	am
amiable	amiabl
amid	amid
amidst	amidst
amiens	amien
amis	ami
amiss	amiss
amities	amiti
amity	amiti
amnipotent	amnipot
among	among
amongst	amongst
amorous	amor
amorously	amor
amort	amort
amount	amount
amounts	amount
amour	amour
amphimacus	amphimacu
ample	ampl
ampler	ampler
amplest	amplest
amplified	amplifi
amplify	amplifi
amply	ampli
amphill	amphil
amurath	amurath
amyntas	amynta
an	an
anatomiz	anatomiz
anatomize	anatom
anatomy	anatomy
ancestor	ancestor



ancestors	ancestor
ancestry	ancestri
anchises	anchis
anchor	anchor
anchorage	anchorag
anchored	anchor
anchoring	anchor
anchors	anchor
anchovies	anchovi
ancient	ancient
ancientry	ancientri
ancients	ancient
ancus	ancu
and	and
andirons	andiron
andpholus	andpholu
andren	andren
andrew	andrew
andromache	andromach
andronici	andronici
andronicus	andronicu
anew	anew
ang	ang
angel	angel
angelica	angelica
angelical	angel
angelo	angelo
angels	angel
anger	anger
angerly	angerli
angers	anger
anges	ang
angiers	angier
angl	angl
anglais	anglai
angle	angl
angler	angler
angleterre	angleterr
angliae	anglia
angling	angl
anglish	anglish
angrily	angrili
angry	angri
anguish	anguish
angus	angu
animal	anim
animals	anim
animis	animi

anjou	anjou
ankle	ankl
anna	anna
annals	annal
anne	ann
annex	annex
annexed	annex
annexions	annexion
annexment	annex
annothanize	annothan
announces	announc
annoy	annoi
annoyance	annoy
annoying	annoi
annual	annual
anoint	anoint
anointed	anoint
anon	anon
another	anoth
anselmo	anselmo
answer	answer
answerable	answer
answered	answer
answerest	answerest
answering	answer
answers	answer
ant	ant
ante	ant
antenor	antenor
antenorides	antenorid
anteroom	anteroom
anthem	anthem
anthems	anthem
anthony	anthoni
anthropophagi	anthropophagi
anthropophaginian	anthropophaginian
antiates	antiat
antic	antic
anticipate	anticip
anticipates	anticip
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bermoothes	bermooth
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berowne	berown
berri	berri
berries	berri
berrord	berrord
berry	berri
bertram	bertram
berwick	berwick
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beseechers	beseech
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beseems	beseem
beset	beset
beshrew	beshrew
beside	besid
besides	besid
besieg	besieg
besiege	besieg
besieged	besieg
beslubber	beslubb
besmear	besmear
besmeared	besmear
besmirch	besmirch
besom	besom
besort	besort
besotted	besot
bspake	bspak
bsppeak	bsppeak
bspice	bspic
bspoke	bspok
bspotted	bspot
bess	bess
bessy	bessi
best	best
bestained	bestain
bested	best
bestial	bestial
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bestirr	bestirr
bestow	bestow
bestowed	bestow
bestowing	bestow
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bestraught	bestraught
bestrew	bestrew
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bethought	bethought
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betide	betid
betideth	betideth
betime	betim
betimes	betim
betoken	betoken
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betossed	betoss
betray	betrai
betrayed	betrai
betraying	betrai
betrays	betrai
betrim	betrim
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betroths	betroth
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bettering	better
betters	better
betting	bet
betre	bettr
between	between
betwixt	betwixt
bevel	bevel
beverage	beverag
bevis	bevi
bevy	bevi
bewail	bewail
bewailed	bewail
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bewails	bewail
beware	bewar
bewasted	bewast

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bewhored	bewhor
bewitch	bewitch
bewitched	bewitch
bewitchment	bewitch
bewray	bewrai
beyond	beyond
bezonian	bezonian
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bianca	bianca
bianco	bianco
bias	bia
bibble	bibbl
bickerings	bicker
bid	bid
bidden	bidden
bidding	bid
biddings	bid
bidly	bidly
bide	bide
bides	bide
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bier	bier
bifold	bifold
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bigamy	bigami
biggen	biggen
bigger	bigger
bigness	big
bigot	bigot
bilberry	bilberri
bilbo	bilbo
bilboes	bilbo
bilbow	bilbow
bill	bill
billeted	billet
billets	billet
billiards	billiard
billing	bill
billow	billow
billows	billow
bills	bill
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bind	bind

bindeth	bindeth
binding	bind
binds	bind
biondello	biondello
birch	birch
bird	bird
birding	bird
birdlime	birdlim
birds	bird
birnam	birnam
birth	birth
birthday	birthdai
birthdom	birthdom
birthplace	birthplac
birthright	birthright
birthrights	birthright
births	birth
bis	bi
biscuit	biscuit
bishop	bishop
bishops	bishop
bisson	bisson
bit	bit
bitch	bitch
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biter	biter
bites	bite
biting	bite
bits	bit
bitt	bitt
bitten	bitten
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bitterest	bitterest
bitterly	bitterli
bitterness	bitter
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blabb	blabb
blabbing	blab
blabs	blab
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blackamoor	blackamoor
blackamoors	blackamoor
blackberries	blackberri
blackberry	blackberri
blacker	blacker
blackest	blackest
blackfriars	blackfriar
blackheath	blackheath

blackmere	blackmer
blackness	black
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blasphemous	blasphem
blasphemy	blasphemi
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blastments	blastment
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bleats	bleat
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bleedeth	bleedeth
bleeding	bleed
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blemishes	blemish
blench	blench
blenches	blench
blend	blend
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blent	blent
bless	bless
blessed	bless
blessedly	blessedli
blessedness	blessed
blesses	bless
blesseth	blesseth
blessing	bless
blessings	bless
blest	blest
blew	blew
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blindfold	blindfold
blinding	blind
blindly	blindli
blindness	blind
blinds	blind
blink	blink
blinking	blink
bliss	bliss
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blister	blister
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blithe	blith
blithild	blithild
bloat	bloat
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blockish	blockish
blocks	block
blois	bloi
blood	blood
blooded	blood
bloodhound	bloodhound
bloodied	bloodi
bloodier	bloodier
bloodiest	bloodiest
bloodily	bloodili
bloodless	bloodless

bloods	blood
bloodshed	bloodsh
bloodshedding	bloodshed
bloodstained	bloodstain
bloody	bloodi
bloom	bloom
blooms	bloom
blossom	blossom
blossoming	blossom
blossoms	blossom
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blotted	blot
blotting	blot
blount	blount
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blowed	blow
blowers	blower
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blowing	blow
blown	blown
blows	blow
blowse	blows
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blubber	blubber
blubbering	blubber
blue	blue
bluecaps	bluecap
bluest	bluest
blunt	blunt
blunted	blunt
blunter	blunter
bluntest	bluntest
blunting	blunt
bluntly	bluntli
bluntness	blunt
blunts	blunt
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blurr	blurr
blurs	blur
blush	blush
blushes	blush
blushest	blushest
blushing	blush
blust	blust
bluster	bluster
blusterer	bluster
blusters	bluster



bo	bo
boar	boar
board	board
boarded	board
boarding	board
boards	board
boarish	boarish
boars	boar
boast	boast
boasted	boast
boastful	boast
boasting	boast
boasts	boast
boat	boat
boats	boat
boatswain	boatswain
bob	bob
bob	bob
boblibindo	boblibindo
bobtail	bobtail
bocchus	bocchu
bode	bode
boded	bode
bodements	bodement
bodes	bode
bodg	bodg
bodied	bodi
bodies	bodi
bodiless	bodiless
bodily	bodili
boding	bode
bodkin	bodkin
body	bodi
bodykins	bodykin
bog	bog
boggle	boggl
boggler	boggler
bogs	bog
bohemia	bohemia
bohemian	bohemian
bohun	bohun
boil	boil
boiling	boil
boils	boil
boist	boist
boisterous	boister
boisterously	boister
boitier	boitier

bold	bold
bolden	bolden
bolder	bolder
boldest	boldest
boldly	boldli
boldness	bold
bolds	bold
bolingbroke	bolingbrok
bolster	bolster
bolt	bolt
bolted	bolt
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bolters	bolter
bolting	bolt
bolts	bolt
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bombast	bombast
bon	bon
bona	bona
bond	bond
bondage	bondag
bonded	bond
bondmaid	bondmaid
bondman	bondman
bondmen	bondmen
bonds	bond
bondslave	bondslav
bone	bone
boneless	boneless
bones	bone
bonfire	bonfir
bonfires	bonfir
bonjour	bonjour
bonne	bonn
bonnet	bonnet
bonneted	bonnet
bonny	bonni
bonos	bono
bonto	bonto
bonville	bonvil
bood	bood
book	book
bookish	bookish
books	book
boon	boon
boor	boor
boorish	boorish

boors	boor
boot	boot
booted	boot
booties	booti
bootless	bootless
boots	boot
booty	booti
bor	bor
bora	bora
borachio	borachio
bordeaux	bordeaux
border	border
bordered	border
borderers	border
borders	border
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boreas	borea
bores	bore
boring	bore
born	born
borne	born
borough	borough
boroughs	borough
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borrowed	borrow
borrower	borrow
borrowing	borrow
borrows	borrow
bosko	bosko
boskos	bosko
bosky	boski
bosom	bosom
bosoms	bosom
boson	boson
boss	boss
bosworth	bosworth
botch	botch
botcher	botcher
botches	botch
botchy	botchi
both	both
bots	bot
bottle	bottl
bottled	bottl
bottles	bottl
bottom	bottom
bottomless	bottomless
bottoms	bottom

bouciqualt	bouciqualt
bouge	boug
bough	bough
boughs	bough
bought	bought
bounce	bounc
bouncing	bounc
bound	bound
bounded	bound
bounden	bounden
boundeth	boundeth
bounding	bound
boundless	boundless
bounds	bound
bounteous	bounteou
bounteously	bounteous
bounties	bounti
bountiful	bounti
bountifully	bountifulli
bounty	bounti
bourbier	bourbier
bourbon	bourbon
bourchier	bourchier
bourdeaux	bourdeaux
ourn	ourn
bout	bout
bouts	bout
bove	bove
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bowcase	bowcas
bowed	bow
bowels	bowel
bower	bower
bowing	bow
bowl	bowl
bowler	bowler
bowling	bowl
bowls	bowl
bows	bow
bowsprit	bowsprit
bowstring	bowstr
box	box
boxes	box
boy	boi
boyet	boyet
boyish	boyish
boys	boi
brabant	brabant

brabantio	brabantio
brabble	brabbl
brabblers	brabblers
brac	brac
brace	brace
bracelet	bracelet
bracelets	bracelet
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bracy	braci
brag	brag
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bragless	bragless
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brained	brain
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brainless	brainless
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brainsickly	brainsickli
brake	brake
brakenbury	brakenburi
brakes	brake
brambles	brambl
bran	bran
branch	branch
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brand	brand
branded	brand
brandish	brandish
brandon	brandon
brands	brand
bras	bra
brass	brass
brassy	brassi
brat	brat
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braved	brave
bravely	brave
braver	braver
bravery	braveri
braves	brave
bravest	bravest
braving	brave
brawl	brawl
brawler	brawler
brawling	brawl
brawls	brawl
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brawns	brawn
bray	brai
braying	brai
braz	braz
brazen	brazen
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breaches	breach
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break	break
breaker	breaker
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breath	breath
breathe	breath
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breathless	breathless
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breeches	breech
breeching	breech

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breese	brees
breeze	breez
breff	breff
bretagne	bretagn
brethen	brethen
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brethren	brethren
brevis	brevi
brevity	breviti
brew	brew
brewage	brewag
brewer	brewer
brewers	brewer
brewing	brew
brews	brew
briareus	briareu
briars	briar
brib	brib
bribe	bribe
briber	briber
bribes	bribe
brick	brick
bricklayer	bricklay
bricks	brick
bridal	bridal
bride	bride
bridegroom	bridegroom
bridegrooms	bridegroom
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bridge	bridg
bridgenorth	bridgenorth
bridges	bridg
bridget	bridget
bridle	bridl
bridled	bridl
brief	brief
brieger	brieger
briefest	briefest
briefly	briefli
briefness	brief
brier	brier
briers	brier
brigandine	brigandin

bright	bright
brighten	brighten
brightest	brightest
brightly	brightli
brightness	bright
brim	brim
brimful	brim
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brinded	brind
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broader	broader
broadships	broadshid
brocas	broca
brock	brock
brogues	brogu
broil	broil
broiling	broil
broils	broil
broke	broke
broken	broken
brokenly	brokenli



broker	broker
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brood	brood
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brothel	brothel
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brotherhood	brotherhood
brotherhoods	brotherhood
brotherly	brotherli
brothers	brother
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brought	brought
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brownist	brownist
browny	browni
brows	brow
browse	brows
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bruise	bruise
bruised	bruise
bruises	bruise
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bubble	bubbl
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bubbling	bubbl
bubukles	bubukl

buck	buck
bucket	bucket
buckets	bucket
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buckingham	buckingham
buckle	buckl
buckled	buckl
buckler	buckler
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bucklersbury	bucklersburi
buckles	buckl
buckram	buckram
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budger	budger
budget	budget
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buffet	buffet
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bugle	bugl
bugs	bug
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buildings	build
builds	build
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bulks	bulk
bull	bull
bullcalf	bullcalf
bullen	bullen
bullens	bullen
bullet	bullet
bullets	bullet
bullocks	bullock
bulls	bull
bully	bulli
bulmer	bulmer
bulwark	bulwark

bulwarks	bulwark
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bumbast	bumbast
bump	bump
bumper	bumper
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bunch	bunch
bunches	bunch
bundle	bundl
bung	bung
bunghole	bunghol
bungle	bungl
bunting	bunt
buoy	buoi
bur	bur
burbolt	burbolt
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burghers	burgher
burglary	burglari
burgomasters	burgomast
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burial	burial
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burier	burier
buriest	buriest
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burn	burn
burned	burn
burnet	burnet
burneth	burneth
burning	burn
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burrows	burrow
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burst	burst
bursting	burst
bursts	burst

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bury	huri
burying	huri
bush	bush
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businesses	busi
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busky	buski
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busses	buss
bussing	buss
bustle	bustl
bustling	bustl
busy	busi
but	but
butcheed	butche
butcher	butcher
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butcherly	butcherli
butchers	butcher
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battered	butter
butterflies	butterfli
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butterwoman	butterwoman
buttery	butteri
buttock	buttock
buttocks	buttock
button	button
buttonhole	buttonhol
buttons	button
buttrass	buttrass
buttry	buttri
butts	butt
buxom	buxom
buy	bui

buyer	buyer
buying	bui
buys	bui
buzz	buzz
buzzard	buzzard
buzzards	buzzard
buzzers	buzzer
buzzing	buzz
by	by
bye	bye
byzantium	byzantium
c	c
ca	ca
cabbage	cabbag
cabileros	cabilero
cabin	cabin
cabins	cabin
cable	cabl
cables	cabl
cackling	cackl
cacodemon	cacodemon
caddis	caddi
caddisses	caddiss
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cadent	cadent
caes	cade
cadmus	cadmu
caduceus	caduceu
cadwal	cadwal
cadwallader	cadwallad
caelius	caeliu
caelo	caelo
caesar	caesar
caesarion	caesarion
caesars	caesar
cage	cage
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cain	cain
caithness	caith
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caitiffs	caitiff
caius	caiu
cak	cak
cake	cake
cakes	cake
calaber	calab

calais	calai
calamities	calam
calamity	calam
calchas	calcha
calculate	calcul
calen	calen
calendar	calendar
calendars	calendar
calf	calf
caliban	caliban
calibans	caliban
calipolis	calipoli
cality	caliti
caliver	caliv
call	call
callat	callat
called	call
callet	callet
calling	call
calls	call
calm	calm
calmest	calmest
calmly	calmli
calmness	calm
calms	calm
calpurnia	calpurnia
calumniate	calumni
calumniating	calumni
calumnious	calumni
calumny	calumni
calve	calv
calved	calv
calves	calv
calveskins	calveskin
calydon	calydon
cam	cam
cambio	cambio
cambria	cambria
cambric	cambric
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cambridge	cambridg
cambyses	cambys
came	came
camel	camel
camelot	camelot
camels	camel
camest	camest
camillo	camillo

camlet	camlet
camomile	camomil
camp	camp
campeius	campeiu
camping	camp
camps	camp
can	can
canakin	canakin
canaries	canari
canary	canari
cancel	cancel
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cancelled	cancel
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cancels	cancel
cancer	cancer
candidatus	candidatu
candied	candi
candle	candl
candles	candl
candlesticks	candlestick
candy	candi
canidius	canidiu
cank	cank
canker	canker
cankerblossom	cankerblossom
cankers	canker
cannibally	cannib
cannibals	cannib
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cannoneer	cannon
cannons	cannon
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canon	canon
canoniz	canoniz
canonize	canon
canonized	canon
canons	canon
canopied	canopi
canopies	canopi
canopy	canopi
canst	canst
canstick	canstick
canterbury	canterburi
cantle	cantl
cantons	canton
canus	canu
canvas	canva

canvass	canvass
canzonet	canzonet
cap	cap
capability	capabl
capable	capabl
capacities	capac
capacity	capac
caparison	caparison
capdv	capdv
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capel	capel
capels	capel
caper	caper
capers	caper
capet	capet
caphis	caphi
capilet	capilet
capitaine	capitain
capital	capit
capite	capit
capitol	capitol
capitulate	capitul
capocchia	capocchia
capon	capon
capons	capon
capp	capp
cappadocia	cappadocia
capriccio	capriccio
capricious	caprici
caps	cap
capt	capt
captain	captain
captains	captain
captainship	captainship
captious	captiou
captivate	captiv
captivated	captiv
captivates	captiv
captive	captiv
captives	captiv
captivity	captiv
captum	captum
capucius	capuciu
capulet	capulet
capulets	capulet
car	car
carack	carack
caracks	carack



carat	carat
caraways	carawai
carbonado	carbonado
carbuncle	carbuncl
carbuncled	carbuncl
carbuncles	carbuncl
carcanet	carcanet
carcase	carcas
carcases	carcas
carcass	carcass
carcasses	carcass
card	card
cardecue	cardecu
carded	card
carders	carder
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deborah	deborah
debosh	debosh
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expectance	expect
expectancy	expect
expectation	expect
expectations	expect
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expert	expert
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expressive	express
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extraordinarily	extraordinarili
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fiddle	fiddl
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fish	fish
fisher	fisher
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fishified	fishifi
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fishpond	fishpond
fisnomy	fisnomi
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fitchew	fitchew
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fleshes	flesh
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fleshment	fleshment
fleshmonger	fleshmong
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flexible	flexibl
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fliers	flier
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flying	fly
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follies	folli
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friday	fridai
fridays	fridai
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friending	friend
friendless	friendless
friendliness	friendli
friendly	friendli
friends	friend
friendship	friendship
friendships	friendship
frieze	friez
fright	fright
frighted	fright
frightened	frighten
frightful	fright
frighting	fright
frights	fright
fringe	fring
fringed	fring
frillery	frillery
frisk	frisk
fritters	fritter
frivolous	frivol
fro	fro
frock	frock
frog	frog
frogmore	frogmor
froissart	froissart
frollic	frollic
from	from
front	front
fronted	front
frontier	frontier
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fronting	front
frontlet	frontlet
fronts	front
frost	frost
frosts	frost
frosty	frosti
froth	froth
froward	froward
frown	frown

frowning	frown
frowningly	frowningli
frowns	frown
froze	froze
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fructify	fructifi
frugal	frugal
fruit	fruit
fruiterer	fruiter
fruitful	fruit
fruitfully	fruitfulli
fruitfulness	fruit
fruition	fruition
fruitless	fruitless
fruits	fruit
frush	frush
frustrate	frustrat
frutify	frutifi
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fubb	fubb
fuel	fuel
fugitive	fugit
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fuller	fuller
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fullness	full
fully	fulli
fulness	ful
fulsome	fulsom
fulvia	fulvia
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fume	fume
fumes	fume
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fun	fun
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funeral	funer
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fur	fur
furbish	furbish
furies	furi
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furnace	furnac
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furnival	furniv
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furtherer	further
furthermore	furthermor
furthest	furthest
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gamut	gamut
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gangren	gangren
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gaoler	gaoler
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gaols	gaol
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gentilhomme	gentilhomm
gentility	gentil
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gentleman	gentleman
gentlemanlike	gentlemanlik
gentlemen	gentlemen
gentleness	gentl
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gentles	gentl
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gentlewoman	gentlewoman

gentlewomen	gentlewomen
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givings	give
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gladness	glad

glamis	glami
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glansdale	glansdal
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glisters	glisten
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gloomy	gloomi
glories	glori

glorified	glorifi
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glorious	gloriou
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glosses	gloss
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gnaws	gnaw
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goaded	goad
goads	goad
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goatish	goatish
goats	goat

gobbets	gobbet
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godden	godden
goddess	goddess
goddesses	goddess
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godfather	godfath
godfathers	godfath
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godlike	godlik
godliness	godli
godly	godli
godmother	godmoth
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gogs	gog
going	go
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goldenly	goldenli
goldsmith	goldsmith
goldsmiths	goldsmith
golgotha	golgotha
goliases	goliias
goliath	goliath
gon	gon
gondola	gondola
gondolier	gondoli
gone	gone
goneril	goneril
gong	gong
gonzago	gonzago
gonzalo	gonzalo
good	good
goodfellow	goodfellow
goodlier	goodlier



goodliest	goodliest
goodly	goodli
goodman	goodman
goodness	good
goodnight	goodnight
goodrig	goodrig
goods	good
goodwife	goodwif
goodwill	goodwil
goodwin	goodwin
goodwins	goodwin
goodyear	goodyear
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goose	goos
gooseberry	gooseberri
goosequills	goosequil
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gorbellied	gorbelli
gorboduc	gorboduc
gordian	gordian
gore	gore
gored	gore
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gorgeous	gorgeou
gorget	gorget
gorging	gorg
gorgon	gorgon
gormandize	gormand
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gory	gori
gosling	gosl
gospel	gospel
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goss	goss
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gossips	gossip
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gouty	gouti
govern	govern
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governs	govern
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gradation	gradat
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grandame	grandam
grandchild	grandchild
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grandeur	grandeur
grandfather	grandfath
grandjurors	grandjuror
grandmother	grandmoth
grandpre	grandpr
grandsir	grandsir
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grange	grang

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grapple	grappl
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grasps	grasp
grass	grass
grasshoppers	grasshopp
grassy	grassi
grate	grate
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grateful	grate
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gratiano	gratiano
gratify	gratifi
gratii	gratii
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gravestone	graveston
gravities	graviti
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gravy	gravi
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graymalkin	graymalkin
graz	graz
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grease	greas
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greybeard	greybeard
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groundlings	groundl
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guessingly	guessingli
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habiliment	habili
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hal	hal
halberd	halberd
halberds	halberd
halcyon	halcyon
hale	hale
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half	half
halfcan	halfcan
halfpence	halfpenc
halfpenny	halfpenni
halfpennyworth	halfpennyworth



halfway	halfwai
halidom	halidom
hall	hall
halloa	halloa
halloing	hallo
hallond	hallond
halloo	halloo
halloing	halloo
hallow	hallow
hallowed	hallow
hallowmas	hallowma
hallown	hallown
hals	hal
halt	halt
halter	halter
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hames	hame
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hammers	hammer
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hampton	hampton
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hamstring	hamstr
hand	hand
handed	hand
handful	hand
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handicraftsmen	handicraftsmen
handing	hand
handiwork	handiwork
handkercher	handkerch
handkerchers	handkerch
handkerchief	handkerchief
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handling	handl
handmaid	handmaid
handmaids	handmaid

hands	hand
handsaw	handsaw
handsome	handsom
handsomely	handsom
handsomeness	handsom
handwriting	handwrit
handy	handi
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harbinger	harbing
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harlots	harlot
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harness	har
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likewise	likewis
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lim	lim
limander	limand
limb	limb
limbeck	limbeck
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limbo	limbo
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lime	lime
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limehouse	limehous
limekilns	limekiln
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limitation	limit
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limits	limit
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limp	limp
limping	limp
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lin	lin
lincoln	lincoln
lincolnshire	lincolnshir
line	line
lineal	lineal
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lineament	lineament
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lines	line
ling	ling
lingare	lingar
linger	linger
lingered	linger
lingers	linger
linguist	linguist
lining	line
link	link
links	link
linsey	linsei
linstock	linstock
linta	linta
lion	lion
lionel	lionel
lioness	lioness
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lip	lip
lipp	lipp
lips	lip
lipsbury	lipsburi
liquid	liquid
liquor	liquor
liquorish	liquorish
liquors	liquor
lirra	lirra
lisbon	lisbon
lisp	lisp
lisping	lisp
list	list
listen	listen
listening	listen
lists	list
literatured	literatur
lither	lither
litter	litter
little	littl
littlest	littlest
liv	liv
live	live
lived	live
livelier	lively
livelihood	livelihood
livelong	livelong
lively	live
liver	liver
liveries	liveri
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livery	liveri
lives	live
livest	livest
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livia	livia
living	live
livings	live
lizard	lizard
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loathly	loathli
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lobbies	lobbi
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local	local
lochaber	lochab
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lockram	lockram
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locusts	locust
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london	london
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lonely	lone
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longboat	longboat
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longtail	longtail
loo	loo
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looking	look
looks	look
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loop	loop
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lop	lop
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loquitur	loquitur
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lordliness	lordli
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lordship	lordship
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lorraine	lorrain
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lots	lot
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lottery	lotteri
loud	loud
louder	louder
loudly	loudli
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lov	lov
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loyalties	loyalti
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lozel	lozel
lt	lt
lubber	lubber
lubberly	lubberli
luc	luc
luccicos	luccico
luce	luce
lucentio	lucentio
lucis	luce
lucetta	lucetta
luciana	luciana
lucianus	lucianu



lucifer	lucif
lucifier	lucifi
lucilius	luciliu
lucina	lucina
lucio	lucio
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luckier	luckier
luckiest	luckiest
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lucky	lucki
lucre	lucr
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lucretia	lucretia
lucullius	luculliu
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lucy	luci
lud	lud
ludlow	ludlow
lug	lug
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luggage	luggag
luke	luke
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lull	lull
lulla	lulla
lullaby	lullabi
lulls	lull
lumbert	lumbert
lump	lump
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lunacies	lunaci
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lunes	lune
lungs	lung
lupercal	luperc
lurch	lurch
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lurk	lurk
lurketh	lurketh
lurking	lurk
lurks	lurk
luscious	luscio
lush	lush

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lustful	lust
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lustiest	lustiest
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lustihood	lustihood
lustily	lustili
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lusts	lust
lusty	lusti
lute	lute
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lutestring	lutestr
lutheran	lutheran
luxurious	luxuri
luxuriously	luxuri
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ly	ly
lycaonia	lycaonia
lycurguses	lycurgus
lydia	lydia
lye	lye
lyen	lyen
lying	ly
lym	lym
lymoges	lymog
lynn	lynn
lysander	lysand
m	m
ma	ma
maan	maan
mab	mab
macbeth	macbeth
maccabaeus	maccabaeu
macdonwald	macdonwald
macduff	macduff
mace	mace
macedon	macedon
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machiavel	machiavel
machination	machin
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mack	mack
macmorris	macmorri

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mad	mad
madam	madam
madame	madam
madams	madam
madcap	madcap
madded	mad
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made	made
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madly	madli
madman	madman
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maecenas	maecena
maggot	maggot
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magical	magic
magician	magician
magistrate	magistr
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magnanimity	magnanim
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mahomet	mahomet
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maidenhood	maidenhood
maidenhoods	maidenhood
maidenliest	maidenliest
maidenly	maidenli
maidens	maiden
maidhood	maidhood
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mailed	mail
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main	main
maincourse	maincours
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mainly	mainli
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mains	main
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maledictions	maledict
malefactions	malefact

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malhecho	malhecho
malice	malic
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maliciously	malici
malign	malign
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malignant	malign
malignantly	malignantli
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malt	malt
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manakin	manakin
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manfully	manfulli
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manhood	manhood
manhoods	manhood
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manifoldly	manifoldli
manka	manka
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mans	man
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mansions	mansion
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map	map
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mar	mar
marble	marbl
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marcade	marcad
marcellus	marcellu
march	march
marches	march
marcheth	marcheth

marching	march
marchioness	marchio
marchpane	marchpan
marcians	marcian
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mare	mare
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maria	maria
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marketplace	marketplac
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marquess	marquess
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marriage	marriag
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marrow	marrow
marrowless	marrowless
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marrying	marri
mars	mar
marseilles	marseil
marsh	marsh
marshal	marshal
marshalsea	marshalsea
marshalship	marshalship
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marted	mart
martem	martem
martext	martext
martial	martial
martin	martin
martino	martino
martius	martiu
martlemas	martlema
martlet	martlet
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martyr	martyr
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marullus	marullu
marv	marv
marvel	marvel
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marvellous	marvel
marvellously	marvel
marvels	marvel
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mas	ma
masculine	masculin
masham	masham
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masks	mask
mason	mason
masonry	masonri
masons	mason
masque	masqu
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mass	mass
massacre	massacr
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massy	massi
mast	mast
master	master
master	master
masterdom	masterdom
masterest	masterest
masterless	masterless
masterly	masterli
masterpiece	masterpiec
masters	master
mastership	mastership
mastic	mastic
mastiff	mastiff
mastiffs	mastiff
masts	mast
match	match
matches	match
matcheth	matcheth
matching	match
matchless	matchless
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mated	mate
mater	mater
material	materi
mates	mate
mathematics	mathemat
matin	matin
matron	matron
matrons	matron
matter	matter
matters	matter
matthew	matthew
mattock	mattock
mattress	mattress
mature	matur
maturity	matur
maud	maud
maudlin	maudlin
maugre	maugr
maul	maul
maund	maund
mauri	mauri
mauritania	mauritania
mauvais	mauvai
maw	maw
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maxim	maxim
may	mai

mayday	maydai
mayest	mayest
mayor	mayor
maypole	maypol
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meacock	meacock
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mechanics	mechan
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meet	meet
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meilleur	meilleur
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meisen	meisen
melancholies	melancholi
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melford	melford
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melodious	melodi

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menelaus	menelau
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mentis	menti
menton	menton
mephostophilus	mephostophilu
mer	mer
mercatante	mercatant
mercatio	mercatio
mercenaries	mercenari
mercenary	mercenari
mercer	mercer
merchandise	merchandis
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merchant	merchant

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mercies	merci
merciful	merci
mercifully	mercifulli
merciless	merciless
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merest	merest
meridian	meridian
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merited	merit
meritorious	meritori
merits	merit
merlin	merlin
mermaid	mermaid
mermaids	mermaid
merops	merop
merrier	merrier
merriest	merriest
merrily	merrili
merriman	merriman
merriment	merriment
merriments	merriment
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mes	me
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metamorphis	metamorphi
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mewling	mewl
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mice	mice
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micher	micher
miching	mich
mickle	mickl
microcosm	microcosm
mid	mid
midas	mida
middest	middest
middle	middl
middleham	middleham
midnight	midnight
midriff	midriff
midst	midst
midsummer	midsumm
midway	midwai
midwife	midwif

midwives	midwiv
miene	mienn
might	might
mightful	might
mightier	mightier
mightiest	mightiest
mightily	mightili
mightiness	mighti
mightst	mightst
mighty	mighti
milan	milan
milch	milch
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milder	milder
mildest	mildest
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mildews	mildew
mildly	mildli
mildness	mild
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military	militari
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milkmaid	milkmaid
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milksops	milksop
milky	milki
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mills	mill
millstones	millston
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mind	mind
minded	mind
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minds	mind
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minimo	minimo
minimus	minimu
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ministers	minist
ministration	ministr
minnow	minnow
minnows	minnow
minola	minola
minority	minor
minos	mino
minotaurs	minotaur
minstrel	minstrel
minstrels	minstrel
minstrely	minstrely
mint	mint
mints	mint
minute	minut
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minutes	minut
minx	minx
mio	mio
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mirable	mirabl
miracle	miracl
miracles	miracl
miraculous	miracul
miranda	miranda
mire	mire
mirror	mirror
mirrors	mirror
mirth	mirth



mirthful	mirth
miry	miri
mis	mi
misadventur	misadventur
misadventure	misadventur
misanthropos	misanthropo
misapplied	misappli
misbecame	misbecam
misbecom	misbecom
misbecome	misbecom
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misbeliever	misbeliev
misbelieving	misbeliev
misbhav	misbhav
miscall	miscal
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miscarried	miscarri
miscarries	miscarri
miscarry	miscarri
miscarrying	miscarri
mischance	mischanc
mischances	mischanc
mischief	mischief
mischiefs	mischief
mischievous	mischiev
misconceived	misconceiv
misconst	misconst
misconster	misconst
misconstruction	misconstruct
misconstrued	misconstru
misconstrues	misconstru
miscreant	miscreant
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misdeeds	misde
misdemean	misdemean
misdemeanours	misdemeanour
misdoubt	misdoubt
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misdoubts	misdoubt
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miser	miser
miserable	miser
miserably	miser
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miseries	miseri
misers	miser

misery	miseri
misfortune	misfortun
misfortunes	misfortun
misgive	misgiv
misgives	misgiv
misgiving	misgiv
misgoverned	misgovern
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misguide	misguid
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mislead	mislead
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misleaders	mislead
misleading	mislead
misled	misl
mislike	mislik
misord	misord
misplac	misplac
misplaced	misplac
misplaces	misplac
mispris	mispri
misprised	mispris
misprision	mispris
misprizing	mispriz
misproud	misproud
misquote	misquot
misreport	misreport
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misses	miss
misshap	misshap
misshapen	misshapen
missheathed	missheath
missing	miss
missingly	missingli
missions	mission
missive	missiv
missives	missiv
misspoke	misspok
mist	mist
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mistern	mistern
mistful	mist
misthink	misthink
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mistletoe	mistleto
mistook	mistook
mistreadings	mistread
mistress	mistress
mistresses	mistress
mistresss	mistresss
mistriship	mistriship
mistrust	mistrust
mistrusted	mistrust
mistrustful	mistrust
mistrusting	mistrust
mists	mist
misty	misti
misus	misu
misuse	misus
misused	misus
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mithridates	mithrid
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moated	moat
mobled	mobl
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mockable	mockabl
mocker	mocker
mockeries	mockeri
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mocking	mock
mocks	mock
mockwater	mockvat
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model	model
modena	modena
moderate	moder
moderately	moder
moderation	moder
modern	modern
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modesties	modesti
modestly	modestli
modesty	modesti
modicums	modicum
modo	modo
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moe	moe
moi	moi
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moist	moist
moisten	moisten
moisture	moistur
moldwarp	moldwarp
mole	mole
molehill	molehil
moles	mole
molest	molest
molestation	molest
mollification	mollif
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molten	molten
molto	molto
mome	mome
moment	moment
momentary	momentari
moming	mome
mon	mon
monachum	monachum
monarch	monarch
monarchies	monarchi
monarchize	monarch
monarcho	monarcho
monarchs	monarch
monarchy	monarchi
monast	monast
monastery	monasteri
monastic	monast

monday	mondai
monde	mond
money	monei
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mongrel	mongrel
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monk	monk
monkey	monkei
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monmouth	monmouth
monopoly	monopoli
mons	mon
monsieur	monsieur
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monster	monster
monsters	monster
monstrous	monstrou
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monstrousness	monstrous
monstruosity	monstruos
montacute	montacut
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montant	montant
montez	montez
montferrat	montferrat
montgomery	montgomeri
month	month
monthly	monthli
months	month
montjoy	montjoi
monument	monument
monumental	monument
monuments	monument
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moods	mood
moody	moodi
moon	moon
moonbeams	moonbeam
moonish	moonish

moonlight	moonlight
moons	moon
moonshine	moonshin
moonshines	moonshin
moor	moor
moorfields	moorfield
moors	moor
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mope	mope
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mopping	mop
mopsa	mopsa
moral	moral
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mordake	mordak
more	more
moreover	moreov
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mornings	morn
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morris	morri
morrow	morrow
morrows	morrow
morsel	morsel
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mortality	mortal
mortally	mortal
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mother	mother
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motion	motion
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motions	motion
motive	motiv
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motley	motlei
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mountain	mountain
mountaineer	mountain
mountaineers	mountain
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mountains	mountain
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mountebank	mountebank
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mourn	mourn
mourned	mourn
mourner	mourner
mourners	mourner
mournful	mourn
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murmur	murmur
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murrain	murrain
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napping	nap
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narbon	narbon
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narines	narin
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nasty	nasti
nathaniel	nathaniel
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neapolitans	neapolitan
near	near
nearer	nearer
nearest	nearest
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necessaries	necessari
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neck	neck
necklace	necklac
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nectar	nectar
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negation	negat
negative	neg
negatives	neg
neglect	neglect
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neglection	neglect
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negotiate	negoti
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neigh	neigh
neighbors	neighbor
neighbour	neighbour
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neighbouring	neighbour
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neighbours	neighbour
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neither	neither
nell	nell
nemean	nemean
nemesis	nemesi
neoptolemus	neoptolemu
nephew	nephew
nephews	nephew
neptune	neptun
ner	ner
nerides	nereid
nerissa	nerissa
nero	nero
neroes	nero
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nerve	nerv
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nessus	nessu
nest	nest
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nests	nest
net	net
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nets	net
nettle	nettl
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neuter	neuter
neutral	neutral
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nevil	nevil
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new	new
newborn	newborn
newer	newer
newest	newest
newgate	newgat
newly	newli
newness	new
news	new
newsmongers	newsmong
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next	next
nibbling	nibbl
nicanor	nicanor
nice	nice
nicely	nice
niceness	nice
nicer	nicer
nicety	niceti
nicholas	nichola
nick	nick
nickname	nicknam
nicks	nick
niece	niec
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niggard	niggard
niggarding	niggard
niggardly	niggardli
nigh	nigh
night	night
nightcap	nightcap
nightcaps	nightcap
nighted	night
nightgown	nightgown
nightingale	nightingal
nightingales	nightingal
nightly	nightli
nightmare	nightmar
nights	night
nightwork	nightwork
nihil	nihil
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no	no
noah	noah
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nobleman	nobleman
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noisemaker	noisemak
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noisome	noisom
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non	non
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nonino	nonino
nonny	nonni
nonpareil	nonpareil
nonsuits	nonsuit
nony	noni
nook	nook
nooks	nook
noon	noon
noonday	noondai
noontide	noontid
nor	nor
norbery	norberi
norfolk	norfolk
norman	norman
normandy	normandi
normans	norman
north	north
northampton	northampton
northamptonshire	northamptonshir
northerly	northerli
northern	northern
northgate	northgat
northumberland	northumberland
northumberlands	northumberland
northward	northward
norway	norwai
norways	norwai
norwegian	norwegian
norweyan	norweyan
nos	no
nose	nose
nosegays	nosegai
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noster	noster
nostra	nostra
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nostrils	nostril
not	not
notable	notabl
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notary	notari
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note	note
notebook	notebook
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notedly	notedli
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notest	notest
noteworthy	noteworthi
nothing	noth
nothings	noth
notice	notic
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notion	notion
notorious	notori
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nought	nought
noun	noun
nouns	noun
nourish	nourish
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nourisher	nourish
nourishes	nourish
nourisheth	nourisheth
nourishing	nourish
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nous	nou
novel	novel
novelties	novelti
novelty	novelti
noverbs	noverb
novi	novi
novice	novic
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novum	novum
now	now
nowhere	nowher
noyance	noyanc
ns	ns
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nubibus	nubibu
numa	numa
numb	numb
number	number
numbered	number
numbering	number
numberless	numberless
numbers	number
numbness	numb
nun	nun
nuncio	nuncio
nuncle	nuncl

nunnery	nunneri
nuns	nun
nuntius	nuntiu
nuptial	nuptial
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nurser	nurser
nursery	nurseri
nurses	nurs
nurseth	nurseth
nursh	nursh
nursing	nurs
nurtur	nurtur
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nut	nut
nuthook	nuthook
nutmeg	nutmeg
nutmegs	nutmeg
nutriment	nutriment
nuts	nut
nutshell	nutshel
ny	ny
nym	nym
nymph	nymph
nymphs	nymph
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oatcake	oatcak
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oathable	oathabl
oaths	oath
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ob	ob
obduracy	obduraci
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obedience	obedi
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obeisance	obeis
oberon	oberon
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obeyed	obei
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object	object
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objections	object
objects	object
oblation	oblat
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oblique	obliqu
oblivion	oblivion
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obscur	obscur
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obscurely	obscur
obscurities	obscur
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obstruct	obstruct
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occasion	occas
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occident	occid
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occurrence	occurr
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ocean	ocean
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octavia	octavia
octavius	octaviu
ocular	ocular
od	od
odd	odd
oddest	oddest
oddly	oddli
odds	odd
ode	od
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odious	odiou
odoriferous	odorifer
odorous	odor
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off	off
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offerings	offer
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offices	offic
official	offici
officious	offici
offspring	offspr
oft	oft
often	often
oftener	often
oftentimes	oftentim
oh	oh
oil	oil
oils	oil
oily	oili
old	old
oldcastle	oldcastl
olden	olden
older	older
oldest	oldest
oldness	old
olive	oliv
oliver	oliv
olivers	oliv
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olivia	olivia
olympian	olympian
olympus	olympu
oman	oman

omans	oman
omen	omen
ominous	omin
omission	omiss
omit	omit
omittance	omitt
omitted	omit
omitting	omit
omne	omn
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omnipotent	omnipot
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once	onc
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ones	on
oneyers	oney
ongles	ongl
onion	onion
onions	onion
only	onli
onset	onset
onward	onward
onwards	onward
oo	oo
ooze	ooz
oozes	ooz
oozy	oozi
op	op
opal	opal
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open	open
opener	open
opening	open
openly	openli
openness	open
opens	open
operant	oper
operate	oper
operation	oper
operations	oper
operative	oper
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oph	oph
ophelia	ophelia
opinion	opinion
opinions	opinion
opportune	opportun
opportunities	opportun

opportunity	opportun
oppos	oppo
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opposes	oppos
opposing	oppos
opposite	opposit
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oppositions	opposit
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oppresses	oppress
oppresseth	oppresseth
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oppressor	oppressor
opprest	opprest
opprobriously	opprobri
oppugnancy	oppugn
opulency	opul
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or	or
oracle	oracl
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orange	orang
oration	orat
orator	orat
orators	orat
oratory	oratori
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orbed	orb
orbs	orb
orchard	orchard
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ord	ord
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ordained	ordain
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ordinance	ordin
ordinant	ordin
ordinaries	ordinari
ordinary	ordinari
ordnance	ordnanc
ords	ord
ordure	ordur
ore	or
organ	organ
organs	organ
orgillous	orgil
orient	orient
orifex	orifex
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original	origin
orisons	orison
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orlando	orlando
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ornament	ornament
ornaments	ornament
orodes	orod
orphan	orphan
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orsino	orsino
ort	ort
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osier	osier
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ostentare	ostentar
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ostents	ostent
ostler	ostler
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ostrich	ostrich
osw	osw
oswald	oswald
othello	othello

other	other
othergates	otherg
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ottoman	ottoman
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outbrave	outbrav
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outfly	outfli
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overearnest	overearnest
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overlive	overl
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overmaster	overmast
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overmuch	overmuch
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patron	patron
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pedant	pedant
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peerless	peerless
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pegasus	pegasu
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pere	pere
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peremptorily	peremptorili
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permanent	perman
permission	permiss
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perniciously	pernici
peroration	peror
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personae	persona
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persuade	persuad

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persuasion	persuas
persuasions	persuas
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philotus	philotu
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phoebe	phoeb
phoebus	phoebu
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phrase	phrase
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pickers	picker
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pleasure	pleasur
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plebeii	plebeii
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plenty	plenti
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plus	plu
pluto	pluto
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ply	ply
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pocketing	pocket
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pody	podi
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poetry	poetri
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pompey	pompei
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poorly	poorli
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progne	progn
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publicly	publicli
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quests	quest
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quickly	quickli
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quicksands	quicksand
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quiddities	quidditi

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quietly	quietli
quietness	quiet
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quinces	quinc
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slovenly	slovenli
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sola	sola
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sophister	sophist
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sophy	sophi
sops	sop
sorcerer	sorcer

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southerly	southerli
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sovereignest	sovereignest
sovereignly	sovereignli
sovereignty	sovereignti
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spark	spark
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sphinx	sphinx
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spightfully	spightfulli
spigot	spigot
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spinners	spinner
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spirits	spirit
spiritual	spiritu
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squadron	squadron
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squeal	squeal
squealing	squeal
squeezes	squeez
squeezing	squeez
squele	squel
squier	squier
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staffords	stafford
staffordshire	staffordshir
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stanze	stanz
stanzo	stanzo
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stubborn	stubborn
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stupid	stupid
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sturdy	sturdi
sty	sty
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styx	styx
su	su
sub	sub
subcontracted	subcontract
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subdue	subdu
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subduements	subduement
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subject	subject
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subjection	subject
subjects	subject
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submission	submit
submissive	submit
submit	submit
submits	submit
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subornation	suborn
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subscribe	subscrib
subscribed	subscrib
subscribes	subscrib
subscription	subscript
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subsidies	subsidi

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substitute	substitut
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subtractors	subtractor
suburbs	suburb
subversion	subvers
subverts	subvert
succedant	succeed
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succeeds	succe
success	success
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successes	success
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successfully	successfulli
succession	success
successive	success
successively	success
successor	successor
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thracian	thracian

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whole	whole
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wholesome	wholesom
wholly	wholli
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whoobub	whoobub
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wit	wit
witb	witb
witch	witch
witchcraft	witchcraft
witches	witch
witching	witch
with	with
withal	withal
withdraw	withdraw
withdrawing	withdraw
withdrawn	withdrawn
withdrew	withdrew
wither	wither
withered	wither
withering	wither
withers	wither
withheld	withheld
withhold	withhold
withholds	withhold
within	within
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wrangling	wrangl
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wrestle	wrestl
wrestled	wrestl
wrestler	wrestler
wrestling	wrestl
wretch	wretch
wretchcd	wretchcd
wretched	wretch
wretchedness	wretched
wretches	wretch
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wrongly	wrongli
wrongs	wrong
wronk	wronk
wrote	wrote
wroth	wroth
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wrung	wrung
wry	wry
wrying	wry
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wul	wul
wye	wye
x	x
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xi	xi
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xiii	xiii
xiv	xiv
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yard	yard
yards	yard
yare	yare
yarely	yare
yarn	yarn
yaughan	yaughan
yaw	yaw
yawn	yawn
yawning	yawn
ycleped	yclepe
ycliped	yclipe
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yea	yea
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yearly	yearli
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yeast	yeast
yedward	yedward
yell	yell
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yellowed	yellow
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yellowness	yellow
yellowes	yellow
yells	yell
yelping	yelp
yeoman	yeoman
yeomen	yeomen
yerk	yerk
yes	ye
yesterday	yesterdai
yesterdays	yesterdai
yesternight	yesternight
yesty	yesti
yet	yet
yew	yew
yield	yield
yield	yield
yielded	yield
yielder	yielder
yielders	yielder
yielding	yield
yields	yield
yok	yok
yoke	yoke
yoked	yoke
yokefellow	yokefellow
yokes	yoke
yoketh	yoketh
yon	yon
yond	yond
yonder	yonder
yongrey	yongrei
yore	yore
yorick	yorick
york	york
yorkists	yorkist
yorks	york
yorkshire	yorkshir
you	you
young	young
younger	younger

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youngest youngest
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zenith zenith
zephyrs zephyr
zir zir
zo zo
zodiac zodiac
zodiacs zodiac
zone zone
zounds zound
zwagger zwagger
}

Create a full-text index to use for testing the stemmer.
#
db close
sqlite3 db :memory:
db eval {
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
execsql {
DELETE FROM t1_term;
DELETE FROM t1_content;
INSERT INTO t1(word) VALUES($pfrom);
SELECT term FROM t1_term;
}
} $pto
}

```

}

finish\_test

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/fts1porter.test  
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a>. No claim of ownership is made

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/faq.html  
No license file was found, but licenses were detected in source scan.

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1049079049\_1591308668.43/0/sqlite-3.7.17-8.el7\_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/consortium.html  
No license file was found, but licenses were detected in source scan.

{string currentfile exch readstring pop}executeonly def

Found in path(s):

\* /

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

/\*

\*\* CAPI3REF: Configuration Options

\*\* KEYWORDS: {configuration option}

\*\*

\*\* These constants are the available integer configuration options that  
\*\* can be passed as the first argument to the [sqlite3\_config()] interface.

\*\*

\*\* New configuration options may be added in future releases of SQLite.

\*\* Existing configuration options might be discontinued. Applications  
\*\* should check the return code from [sqlite3\_config()] to make sure that  
\*\* the call worked. The [sqlite3\_config()] interface will return a

\*\* non-zero [error code] if a discontinued or unsupported configuration option  
\*\* is invoked.

\*\*

\*\* <dl>

\*\* [[SQLITE\_CONFIG\_SINGLETHREAD]] <dt>SQLITE\_CONFIG\_SINGLETHREAD</dt>

\*\* <dd>There are no arguments to this option. ^This option sets the

\*\* [threading mode] to Single-thread. In other words, it disables

\*\* all mutexing and puts SQLite into a mode where it can only be used  
 \*\* by a single thread. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* it is not possible to change the [threading mode] from its default  
 \*\* value of Single-thread and so [sqlite3\_config()] will return  
 \*\* [SQLITE\_ERROR] if called with the SQLITE\_CONFIG\_SINGLETHREAD  
 \*\* configuration option.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MULTITHREAD]] <dt>SQLITE\_CONFIG\_MULTITHREAD</dt>  
 \*\* <dd>There are no arguments to this option. ^This option sets the  
 \*\* [threading mode] to Multi-thread. In other words, it disables  
 \*\* mutexing on [database connection] and [prepared statement] objects.  
 \*\* The application is responsible for serializing access to  
 \*\* [database connections] and [prepared statements]. But other mutexes  
 \*\* are enabled so that SQLite will be safe to use in a multi-threaded  
 \*\* environment as long as no two threads attempt to use the same  
 \*\* [database connection] at the same time. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* it is not possible to set the Multi-thread [threading mode] and  
 \*\* [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the  
 \*\* SQLITE\_CONFIG\_MULTITHREAD configuration option.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_SERIALIZED]] <dt>SQLITE\_CONFIG\_SERIALIZED</dt>  
 \*\* <dd>There are no arguments to this option. ^This option sets the  
 \*\* [threading mode] to Serialized. In other words, this option enables  
 \*\* all mutexes including the recursive  
 \*\* mutexes on [database connection] and [prepared statement] objects.  
 \*\* In this mode (which is the default when SQLite is compiled with  
 \*\* [SQLITE\_THREADSAFE=1]) the SQLite library will itself serialize access  
 \*\* to [database connections] and [prepared statements] so that the  
 \*\* application is free to use the same [database connection] or the  
 \*\* same [prepared statement] in different threads at the same time.  
 \*\* ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* it is not possible to set the Serialized [threading mode] and  
 \*\* [sqlite3\_config()] will return [SQLITE\_ERROR] if called with the  
 \*\* SQLITE\_CONFIG\_SERIALIZED configuration option.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MALLOC]] <dt>SQLITE\_CONFIG\_MALLOC</dt>  
 \*\* <dd> ^This option takes a single argument which is a pointer to an  
 \*\* instance of the [sqlite3\_mem\_methods] structure. The argument specifies  
 \*\* alternative low-level memory allocation routines to be used in place of  
 \*\* the memory allocation routines built into SQLite.)^ ^SQLite makes  
 \*\* its own private copy of the content of the [sqlite3\_mem\_methods] structure  
 \*\* before the [sqlite3\_config()] call returns.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETMALLOC]] <dt>SQLITE\_CONFIG\_GETMALLOC</dt>  
 \*\* <dd> ^This option takes a single argument which is a pointer to an

\*\* instance of the [sqlite3\_mem\_methods] structure. The [sqlite3\_mem\_methods] structure is filled with the currently defined memory allocation routines.)^

\*\* This option can be used to overload the default memory allocation routines with a wrapper that simulations memory allocation failure or tracks memory usage, for example. </dd>

\*\*

\*\* [[SQLITE\_CONFIG\_MEMSTATUS]] <dt>SQLITE\_CONFIG\_MEMSTATUS</dt>

\*\* <dd> ^This option takes single argument of type int, interpreted as a boolean, which enables or disables the collection of memory allocation statistics. ^(When memory allocation statistics are disabled, the following SQLite interfaces become non-operational:

\*\* <ul>

\*\* <li> [sqlite3\_memory\_used()]

\*\* <li> [sqlite3\_memory\_highwater()]

\*\* <li> [sqlite3\_soft\_heap\_limit64()]

\*\* <li> [sqlite3\_status()]

\*\* </ul>)^

\*\* ^Memory allocation statistics are enabled by default unless SQLite is compiled with [SQLITE\_DEFAULT\_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default.

\*\* </dd>

\*\*

\*\* [[SQLITE\_CONFIG\_SCRATCH]] <dt>SQLITE\_CONFIG\_SCRATCH</dt>

\*\* <dd> ^This option specifies a static memory buffer that SQLite can use for scratch memory. There are three arguments: A pointer an 8-byte aligned memory buffer from which the scratch allocations will be drawn, the size of each scratch allocation (sz), and the maximum number of scratch allocations (N). The sz argument must be a multiple of 16.

\*\* The first argument must be a pointer to an 8-byte aligned buffer of at least sz\*N bytes of memory.

\*\* ^SQLite will use no more than two scratch buffers per thread. So N should be set to twice the expected maximum number of threads.

\*\* ^SQLite will never require a scratch buffer that is more than 6 times the database page size. ^If SQLite needs needs additional scratch memory beyond what is provided by this configuration option, then [sqlite3\_malloc()] will be used to obtain the memory needed.</dd>

\*\*

\*\* [[SQLITE\_CONFIG\_PAGECACHE]] <dt>SQLITE\_CONFIG\_PAGECACHE</dt>

\*\* <dd> ^This option specifies a static memory buffer that SQLite can use for the database page cache with the default page cache implementation.

\*\* This configuration should not be used if an application-define page cache implementation is loaded using the SQLITE\_CONFIG\_PCACHE2 option.

\*\* There are three arguments to this option: A pointer to 8-byte aligned memory, the size of each page buffer (sz), and the number of pages (N).

\*\* The sz argument should be the size of the largest database page (a power of two between 512 and 32768) plus a little extra for each page header. ^The page header size is 20 to 40 bytes depending on

\*\* the host architecture. ^It is harmless, apart from the wasted memory,  
 \*\* to make sz a little too large. The first  
 \*\* argument should point to an allocation of at least sz\*N bytes of memory.  
 \*\* ^SQLite will use the memory provided by the first argument to satisfy its  
 \*\* memory needs for the first N pages that it adds to cache. ^If additional  
 \*\* page cache memory is needed beyond what is provided by this option, then  
 \*\* SQLite goes to [sqlite3\_malloc()] for the additional storage space.  
 \*\* The pointer in the first argument must  
 \*\* be aligned to an 8-byte boundary or subsequent behavior of SQLite  
 \*\* will be undefined.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_HEAP]] <dt>SQLITE\_CONFIG\_HEAP</dt>  
 \*\* <dd> ^This option specifies a static memory buffer that SQLite will use  
 \*\* for all of its dynamic memory allocation needs beyond those provided  
 \*\* for by [SQLITE\_CONFIG\_SCRATCH] and [SQLITE\_CONFIG\_PAGECACHE].  
 \*\* There are three arguments: An 8-byte aligned pointer to the memory,  
 \*\* the number of bytes in the memory buffer, and the minimum allocation size.  
 \*\* ^If the first pointer (the memory pointer) is NULL, then SQLite reverts  
 \*\* to using its default memory allocator (the system malloc() implementation),  
 \*\* undoing any prior invocation of [SQLITE\_CONFIG\_MALLOC]. ^If the  
 \*\* memory pointer is not NULL and either [SQLITE\_ENABLE\_MEMSYS3] or  
 \*\* [SQLITE\_ENABLE\_MEMSYS5] are defined, then the alternative memory  
 \*\* allocator is engaged to handle all of SQLite's memory allocation needs.  
 \*\* The first pointer (the memory pointer) must be aligned to an 8-byte  
 \*\* boundary or subsequent behavior of SQLite will be undefined.  
 \*\* The minimum allocation size is capped at 2\*\*12. Reasonable values  
 \*\* for the minimum allocation size are 2\*\*5 through 2\*\*8.</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_MUTEX]] <dt>SQLITE\_CONFIG\_MUTEX</dt>  
 \*\* <dd> ^(This option takes a single argument which is a pointer to an  
 \*\* instance of the [sqlite3\_mutex\_methods] structure. The argument specifies  
 \*\* alternative low-level mutex routines to be used in place  
 \*\* the mutex routines built into SQLite.)^ ^SQLite makes a copy of the  
 \*\* content of the [sqlite3\_mutex\_methods] structure before the call to  
 \*\* [sqlite3\_config()] returns. ^If SQLite is compiled with  
 \*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_MUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>  
 \*\*  
 \*\* [[SQLITE\_CONFIG\_GETMUTEX]] <dt>SQLITE\_CONFIG\_GETMUTEX</dt>  
 \*\* <dd> ^(This option takes a single argument which is a pointer to an  
 \*\* instance of the [sqlite3\_mutex\_methods] structure. The  
 \*\* [sqlite3\_mutex\_methods]  
 \*\* structure is filled with the currently defined mutex routines.)^  
 \*\* This option can be used to overload the default mutex allocation  
 \*\* routines with a wrapper used to track mutex usage for performance  
 \*\* profiling or testing, for example. ^If SQLite is compiled with



\*\* the [SQLITE\_THREADSAFE | SQLITE\_THREADSAFE=0] compile-time option then  
 \*\* the entire mutexing subsystem is omitted from the build and hence calls to  
 \*\* [sqlite3\_config()] with the SQLITE\_CONFIG\_GETMUTEX configuration option will  
 \*\* return [SQLITE\_ERROR].</dd>  
 \*\*

\*\* [[SQLITE\_CONFIG\_LOOKASIDE]] <dt>SQLITE\_CONFIG\_LOOKASIDE</dt>  
 \*\* <dd> ^(This option takes two arguments that determine the default  
 \*\* memory allocation for the lookaside memory allocator on each  
 \*\* [database connection]. The first argument is the  
 \*\* size of each lookaside buffer slot and the second is the number of  
 \*\* slots allocated to each database connection.)^ ^(This option sets the  
 \*\* <i>default</i> lookaside size. The [SQLITE\_DBCONFIG\_LOOKASIDE]  
 \*\* verb to [sqlite3\_db\_config()] can be used to change the lookaside  
 \*\* configuration on individual connections.)^ </dd>  
 \*\*

\*\* [[SQLITE\_CONFIG\_PCACHE2]] <dt>SQLITE\_CONFIG\_PCACHE2</dt>  
 \*\* <dd> ^(This option takes a single argument which is a pointer to  
 \*\* an [sqlite3\_pcache\_methods2] object. This object specifies the interface  
 \*\* to a custom page cache implementation.)^ ^SQLite makes a copy of the  
 \*\* object and uses it for page cache memory allocations.</dd>  
 \*\*

\*\* [[SQLITE\_CONFIG\_GETPCACHE2]] <dt>SQLITE\_CONFIG\_GETPCACHE2</dt>  
 \*\* <dd> ^(This option takes a single argument which is a pointer to an  
 \*\* [sqlite3\_pcache\_methods2] object. SQLite copies of the current  
 \*\* page cache implementation into that object.)^ </dd>  
 \*\*

\*\* [[SQLITE\_CONFIG\_LOG]] <dt>SQLITE\_CONFIG\_LOG</dt>  
 \*\* <dd> The SQLITE\_CONFIG\_LOG option is used to configure the SQLite  
 \*\* global [error log].  
 \*\* (^The SQLITE\_CONFIG\_LOG option takes two arguments: a pointer to a  
 \*\* function with a call signature of void(\*)(void\*,int,const char\*),  
 \*\* and a pointer to void. ^If the function pointer is not NULL, it is  
 \*\* invoked by [sqlite3\_log()] to process each logging event. ^If the  
 \*\* function pointer is NULL, the [sqlite3\_log()] interface becomes a no-op.  
 \*\* ^The void pointer that is the second argument to SQLITE\_CONFIG\_LOG is  
 \*\* passed through as the first parameter to the application-defined logger  
 \*\* function whenever that function is invoked. ^The second parameter to  
 \*\* the logger function is a copy of the first parameter to the corresponding  
 \*\* [sqlite3\_log()] call and is intended to be a [result code] or an  
 \*\* [extended result code]. ^The third parameter passed to the logger is  
 \*\* log message after formatting via [sqlite3\_snprintf()].  
 \*\* The SQLite logging interface is not reentrant; the logger function  
 \*\* supplied by the application must not invoke any SQLite interface.  
 \*\* In a multi-threaded application, the application-defined logger  
 \*\* function must be threadsafe. </dd>  
 \*\*

\*\* [[SQLITE\_CONFIG\_URI]] <dt>SQLITE\_CONFIG\_URI  
 \*\* <dd> This option takes a single argument of type int. If non-zero, then

\*\* URI handling is globally enabled. If the parameter is zero, then URI handling  
 \*\* is globally disabled. If URI handling is globally enabled, all filenames  
 \*\* passed to [sqlite3\_open()], [sqlite3\_open\_v2()], [sqlite3\_open16()] or  
 \*\* specified as part of [ATTACH] commands are interpreted as URIs, regardless  
 \*\* of whether or not the [SQLITE\_OPEN\_URI] flag is set when the database  
 \*\* connection is opened. If it is globally disabled, filenames are  
 \*\* only interpreted as URIs if the SQLITE\_OPEN\_URI flag is set when the  
 \*\* database connection is opened. By default, URI handling is globally  
 \*\* disabled. The default value may be changed by compiling with the  
 \*\* [SQLITE\_USE\_URI] symbol defined.  
 \*\*

\*\* [[SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN]] <dt>SQLITE\_CONFIG\_COVERING\_INDEX\_SCAN  
 \*\* <dd> This option takes a single integer argument which is interpreted as  
 \*\* a boolean in order to enable or disable the use of covering indices for  
 \*\* full table scans in the query optimizer. The default setting is determined  
 \*\* by the [SQLITE\_ALLOW\_COVERING\_INDEX\_SCAN] compile-time option, or is "on"  
 \*\* if that compile-time option is omitted.  
 \*\* The ability to disable the use of covering indices for full table scans  
 \*\* is because some incorrectly coded legacy applications might malfunction  
 \*\* malfunction when the optimization is enabled. Providing the ability to  
 \*\* disable the optimization allows the older, buggy application code to work  
 \*\* without change even with newer versions of SQLite.  
 \*\*

\*\* [[SQLITE\_CONFIG\_PCACHE]] [[SQLITE\_CONFIG\_GETPCACHE]]  
 \*\* <dt>SQLITE\_CONFIG\_PCACHE and SQLITE\_CONFIG\_GETPCACHE  
 \*\* <dd> These options are obsolete and should not be used by new code.  
 \*\* They are retained for backwards compatibility but are now no-ops.  
 \*\* </dd>  
 \*\*

\*\* [[SQLITE\_CONFIG\_SQLLOG]]  
 \*\* <dt>SQLITE\_CONFIG\_SQLLOG  
 \*\* <dd>This option is only available if sqlite is compiled with the  
 \*\* [SQLITE\_ENABLE\_SQLLOG] pre-processor macro defined. The first argument should  
 \*\* be a pointer to a function of type void(\*)(void\*,sqlite3\*,const char\*, int).  
 \*\* The second should be of type (void\*). The callback is invoked by the library  
 \*\* in three separate circumstances, identified by the value passed as the  
 \*\* fourth parameter. If the fourth parameter is 0, then the database connection  
 \*\* passed as the second argument has just been opened. The third argument  
 \*\* points to a buffer containing the name of the main database file. If the  
 \*\* fourth parameter is 1, then the SQL statement that the third parameter  
 \*\* points to has just been executed. Or, if the fourth parameter is 2, then  
 \*\* the connection being passed as the second parameter is being closed. The  
 \*\* third parameter is passed NULL in this case. An example of using this  
 \*\* configuration option can be seen in the "test\_sqllog.c" source file in  
 \*\* the canonical SQLite source tree.</dd>  
 \*\*

\*\* [[SQLITE\_CONFIG\_MMAP\_SIZE]]  
 \*\* <dt>SQLITE\_CONFIG\_MMAP\_SIZE

```

** <dd>SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** </dl>
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

```

<copyright.html> public domain and is thus free for

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/about.html
No license file was found, but licenses were detected in source scan.

```

```

2006 September 14
#
The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:
#
May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.
#

This file implements regression tests for SQLite library. The
focus of this script is testing the FTS3 module.
#
$Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

If SQLITE_ENABLE_FTS3 is defined, omit this file.
ifcapable !fts3 {
 finish_test

```

```

return
}

Create a table of sample email data. The data comes from email
archives of Enron executives that was published as part of the
litigation against that company.
#
do_test fts3ac-1.1 {
 db eval {
 CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
 BEGIN TRANSACTION;
 INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following
changes will be made to the Autohedge functionality on EnronOnline.

```

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

- ? If the transaction volume on the child is less than half of the parent's minimum volume no hedge will occur.
- ? If the transaction volume on the child is more than half the parent's minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent's minimum volume.
- ? For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent's Settings:

Minimum: 5000

Increment: 1000

Volume on Autohedge transaction    Volume Hedged

1    - 2499    0

2500 - 5499    5000

5500 - 6499    6000');

```

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com,
lisa.king@enron.com, lisa.best@enron.com,', 'Leaving Early', 'FYI:

```

If it's ok with everyone's needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o'clock hour just let me know; I'll be more than willing to stay.');

```

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concuworkplace.com',
'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready
for approval:

```

Employee Name: Christopher F. Calger

Status last changed by: Mollie E. Gustafson Ms

Expense Report Name: CC02.06.02

Report Total: \$3,972.93

Amount Due Employee: \$3,972.93

To approve this expense report, click on the following link for Concur Expense.

<http://expense.ms.enron.com>);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....

<http://biz.yahoo.com/rf/010129/n29305829.html>);

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');

INSERT INTO email([from],[to],subject,body) VALUES('e.carter@enron.com', 't.robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '

The producer lumber pricing sheet.

-----Original Message-----

From: Johnson, Jay

Sent: Tuesday, October 16, 2001 3:42 PM

To: Carter, Karen E.

Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----

From: Daigre, Sergai

Sent: Friday, September 21, 2001 8:33 PM

Subject: Producers Newsletter 9-24-2001

);

INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards

Delainey');

INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',  
'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com  
713.853.3884  
877.498.3401 Pager

-----Original Message-----

From: Bisbee, Joanne  
Sent: Wednesday, September 26, 2001 7:50 AM  
To: Fenceroy, LaChandra  
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----

From: Koh, Wendy  
Sent: Tuesday, September 25, 2001 2:41 PM  
To: Bisbee, Joanne  
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com',  
'RE: worksheets', 'Fran,

If Julie's merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd's sheets as well.  
Thanks.

Dan

-----Original Message-----

From: Fagan, Fran  
Sent: Thursday, December 20, 2001 11:10 AM  
To: McCarty, Danny  
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan  
Sr. HR Rep  
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial\_UnP.xls >>

);  
INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com',  
'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR  
LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE  
GIVE ME A CALL.

BERT');  
INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com,  
bilal.bajwa@enron.com, john.griffith@enron.com,', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The  
report named: NG - PROPT P/L <[http://trv.corp.enron.com/linkFromExcel.asp?report\\_cd=11&report\\_name=NG+-  
+PROPT+P/L&category\\_cd=5&category\\_name=FINANCIAL&toc\\_hide=1&sTV1=5&TV1Exp=Y&current\\_efct\\_d  
ate=09/27/2001](http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d<br/>ate=09/27/2001)>, published as of 09/27/2001 is now available for viewing on the website.');

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com',  
'Re: Small business supply assistance', 'Hi Calvin

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our  
credit guy, Russell Diamond.

Thank for your help!');  
INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com',  
'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to  
you.');

INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com',  
'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

);  
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com',  
'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power  
Outage Database Customer,  
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your  
daily delivery will still contain these outages.  
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive  
nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.  
Greg Elliott

IIR, Inc.

713-783-5147 x 3481

outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf

- 111201R.xls

- 111201.xls ');

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all\_ena\_egm\_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001

11:30 am - 12:30 pm

EB 5 C2

You bring your lunch, Limited Seating

We provide drinks and dessert. RSVP x 3-9610');

INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM

To: "'chris.germany@enron.com'" <chris.germany@enron.com>

cc:

Subject: About St Pauls

<<About St Pauls.url>>

?

?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going here Christmas



eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');

INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrad.com, kmccrea@sablau.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', '- CPUC01-#76371-v1-Revised\_Reply\_Brief\_\_Due\_today\_7\_31\_.doc');

INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder

As discussed in the Winter Operations Meeting on Sept.29,2000,

E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.

Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.

');

INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', ', ' 'Here is a goody for you');

Here is a goody for you');

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o"rourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR

<[http://trv.corp.enron.com/linkFromExcel.asp?report\\_cd=36&report\\_name=West+VaR&category\\_cd=2&category\\_name=WEST&toc\\_hide=1&sTV1=2&TV1Exp=Y&current\\_efct\\_date=11/07/2001](http://trv.corp.enron.com/linkFromExcel.asp?report_cd=36&report_name=West+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001)>, published as of 11/07/2001 is now available for viewing on the website.);

INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, gggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC 30.000 / Enron

');

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn"t know how deep to go with the desk. Do you think this works.

');

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', ', 'George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,  
JMForney  
3-7160');

```
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
```

```
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.
```

adam  
35227

-----Original Message-----

From: Royed, Jeff  
Sent: Tuesday, September 25, 2001 11:37 AM  
To: Bayer, Adam  
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed  
Enron

Energy Operations

Phone: 713-853-5295');

```
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
```

The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts  
15 Questar Pipeline  
40 Rockies Production  
22 West\_2  
23 West\_3  
25 CIG\_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "\*" by the title of calculated points.');

```
INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '----- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000
```

10:08 AM -----

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM  
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"  
<Leila\_Mankarious@mhhs.org>, ""Marymankarious (E-mail)"  
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy  
Mankarious (E-mail)" <Mankarious@aol.com>  
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

<http://www.egyptianfestival.com/>

- Egyptian Festival.url

);

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',  
'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.....')

Thanks

----- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000

08:39 AM -----

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David  
Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON  
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R  
Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra  
Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is  
extremely important that any deal booked to the East is communicated quickly  
to someone on my team. I know it will take some time for the new names to  
sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:

Scott Neal : East Northeast

Dick Jenkins: East Marketeast

WK

');

INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357

Europe: + 44 (0) 20 7783 7783

Asia/Australia: +61 2 9229 2300

Dave');

INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM

To: "Vince J Kaminski" <Vince\_J\_Kaminski@enron.com>

cc:

Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');

INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',  
'mmmarcotel@equiva.com', 'RE:', 'i will try to line up a pig for you ');

INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com,  
chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are  
several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery  
Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer  
system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment  
for you to use.

Thanks for your understanding in this matter.

T.Jae Black

East Power Trading

Assistant to Kevin Presto

off. 713-853-5800

fax 713-646-8272

cell 713-539-4760');

INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X  
24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this  
product out ASAP.

Thanks,

Eric');

INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm..tholt@enron.com',  
'10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]

[IMAGE][IMAGE][IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers,click here.

SmartReminders.com is a permission based service. To unsubscribe click here . ');

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', ', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron\_update@concreworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash

Report Name: Houston Cellular 8-11-01

Report Date: 12/13/01

Report ID: 594D37C9ED2111D5B452

Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.);

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara

Enron Corp.

Tel: (415) 782-7802

Fax:(415) 782-7854

----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"" <smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and

market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie

<http://www.caiso.com/docs/2001/06/08/200106081005526469.pdf>

);

INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');

INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

----- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001  
16:36 -----

Nailia Dindarova

25/06/2001 15:36

To: Michael Brown/Enron@EUEnronXGate

cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

);

INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',

'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:

- Finalize market analysis to refine business case, specifically projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters of intent
- Review Enron asset base for potential reuse/ licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

- accenture-dealpoints v2.doc ');

INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com', 'Re: Guadalupe Power Partners LP', '----- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001 03:49 PM -----

Thomas A Martin  
10/11/2000 03:55 PM  
To: Patrick Wade/HOU/ECT@ECT  
cc:  
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

');

INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution's Capacity Available for Release - Sum', '----- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM -----

agoddard@nsource.com on 03/08/2001 09:16:57 AM  
To: " - \*Koch, Kent" <kkoch@nsource.com>, " -  
\*Millar, Debra" <dmillar@nsource.com>, " - \*Burke, Lynn"



<lburke@nisource.com>

cc: " - \*Heckathorn, Tom" <theckathorn@nisource.com>

Subject: Columbia Distribution's Capacity Available for Release - Sum

Attached is Columbia Distribution's notice of capacity available for release for the summer of 2001 (Apr. 2001 through Oct. 2001).

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

);

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000.

Copies will be distributed to Legal and Credit.');

INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,', 'Oral Argument Request', ' - Oral Argument Request.doc');

INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712..... my cell # is 281-381-7332

the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '

-----Original Message-----

From: Punja, Karim

Sent: Thursday, December 13, 2001 2:35 PM

To: Richey, Cooper

Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time) I hope we can stay in touch.

Home# 234-0249  
email: kpunja@hotmail.com

Take Care,

Karim.

);

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.

I haven't talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn);

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I'm hearing there is some hold-up & the units are stored on 44.

Shelley);

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,', '2001 Enron Law Conference (Distribution List 2)', ' Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at <http://lawconference.corp.enron.com>. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

);

INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com',  
'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i"ll call pat  
and let him know - we are coming on saturday - i just havent had a chance to  
call you guys back -- looking forward to it -- i probably need the  
directions again though');

INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com',  
'Re: Feedback for Audrey Cook', 'Bryce,

I"ll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT

cc:

Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you  
complete her feedback by end of business Wednesday? It will really help me  
in the PRC process to have your input. Thanks.

');

INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com',  
'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as  
well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson

PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson

EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!

Casey');

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',  
'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com,', 'Postings', 'Please see the

attached.

ds

');

INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james\_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn't sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL's work. Martin.

Martin B. Cominsky  
Director, Southwest Region  
Anti-Defamation League  
713/627-3490, ext. 122  
713/627-2011 (fax)  
MCominsky@aol.com');

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush's secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.

PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard  
Senior Legal Specialist  
Enron North America Corp.

Phone: (713) 853-3907  
Fax: (713) 646-3490  
marie.heard@enron.com

);  
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com',  
'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

);  
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j.bonin@enron.com',  
felicia.case@enron.com, b.clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', '  
Please contact me if you have any questions regarding last weeks prices.

Thank you,  
Karolyn Criado  
3-9441

);  
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com',  
'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our  
Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail  
risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.);  
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com',  
'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this  
tomorrow.

Stacy');  
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', ', 'hey  
big guy.....check this out.....

w ww.gorelieberman-2000.com/');  
INSERT INTO email([from],[to],subject,body) VALUES('k.allen@enron.com', 'jacqestc@aol.com', ', 'Jacques,

I sent you a fax of Kevin Kolb's comments on the release. The payoff on the note would be \$36,248  
(\$36090(principal) + \$158 (accrued interest)).

This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com',  
'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

- 1) "Adj L\_R" is the same data/format from the weekly strategy meeting.
- 2) "New Gen 2001\_2002" link has all of the supply side info that is used to calculate the L/R balance  
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson

Fundamental Analysis

Enron North America

(503) 464-8280

kourtney.nelson@enron.com');

INSERT INTO email([from],[to],subject,body) VALUES('d.thomas@enron.com', 'naveed.ahmed@enron.com',  
'FW: Current Enron TCC Portfolio', '

-----Original Message-----

From: Grace, Rebecca M.

Sent: Monday, December 17, 2001 9:44 AM

To: Thomas, Paul D.

Cc: Cashion, Jim; Allen, Thresa A.; May, Tom

Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY's list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

-----Original Message-----

From: Thomas, Paul D.  
Sent: Monday, December 17, 2001 9:08 AM  
To: Grace, Rebecca M.  
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>

Rebecca,  
Let me know if you see any differences.

Paul

X 3-0403

-----Original Message-----

From: Thomas, Paul D.  
Sent: Monday, December 17, 2001 9:04 AM  
To: Ahmed, Naveed  
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----

From: Thomas, Paul D.  
Sent: Thursday, December 13, 2001 10:01 AM  
To: Baughman, Edward D.  
Subject: Current Enron TCC Portfolio

');

INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',  
'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',  
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,  
L.P., effective February 1, 2001, with the surviving entity being El Paso  
Merchant Energy, L.P. We currently have ISDA Master Agreements with both  
counterparties. Please see the attached memo regarding the existing Masters  
and let us know which agreement should be terminated.

Thanks,  
Stephanie

');

INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:  
What about this too???' , '

-----Original Message-----

From: Kenne, Dawn C.  
Sent: Wednesday, February 06, 2002 11:50 AM  
To: Keiser, Kam  
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

);

INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris

x31666);

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', ', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere

Enron North America Corp.

1400 Smith Street, EB 3885

Houston, Texas 77002

dperlin@enron.com

Phone 713-853-7658

Fax 713-646-3490);

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', ', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:

Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001

Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile.

We got a request for guest access through MG.

The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as



soon as Enron has done the due diligence for this country.

Thanks !

Best regards

Diana Seifert

EOL PCG');

INSERT INTO email([from],[to],subject,body) VALUES('enron\_update@concuworkplace.com',  
'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the  
following report:

Status last changed by: Barry L. Tycholiz

Expense Report Name: 121001

Report Total: \$198.98

Amount Due Employee: \$198.98

Amount Approved: \$198.98

Amount Paid: \$0.00

Approval Status: Approved

Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.

<http://expense.ms.enron.com>');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', ', 'Technical Support', 'Outside  
the U.S., please refer to the list below:

Australia:

1800 678-515

support@palm-au.com

Canada:

1905 305-6530

support@palm.com

New Zealand:

0800 446-398

support@palm-nz.com

U.K.:

0171 867 0108

eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.');

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com',  
'RE:', 'duke contact?'

-----Original Message-----

From: Quigley, Dutch  
Sent: Wednesday, October 31, 2001 10:14 AM  
To: Storey, Geoff  
Subject: RE:

bp corp Albert LaMore 281-366-4962

running the reports now

-----Original Message-----

From: Storey, Geoff  
Sent: Wednesday, October 31, 2001 10:10 AM  
To: Quigley, Dutch  
Subject: RE:

give me a contact over there too  
BP

-----Original Message-----

From: Quigley, Dutch  
Sent: Wednesday, October 31, 2001 9:42 AM  
To: Storey, Geoff  
Subject:

Coral Jeff Whitnah 713-767-5374

Relaint Steve McGinn 713-207-4000);

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start

Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary  
schedules awarded.

Variances detected.

Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final  
Schedules\2001042203.txt

---- Load Schedule ----

\$\$\$ Variance found in table tblLoads.

Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)

TRANS\_TYPE: FINAL

LOAD\_ID: PGE4

MKT\_TYPE: 2

TRANS\_DATE: 4/22/01

SC\_ID: EPMI

```
);
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',
'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost
here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to
get everything in order just in case something happens.
```

```
John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the
shower). I have had a shitty week--I suspect my silence (not only to you,
but others) after our phone call is a result of the week. I'm seeing Glen at
11:15....talk to you');
```

```
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', ', 'Lite Bytz RSVP', '
This week's Lite Bytz presentation will feature the following TOOLZ speaker:
```

Richard McDougall  
Solaris 8  
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to [litebytz@enron.com](mailto:litebytz@enron.com) by the end of the day Tuesday, June 5, 2001.

\*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

<http://home.enron.com:84/messaging/litebytztoolzprint.jpg>');

```
COMMIT;
}
} {}
```

```
#####
Everything above just builds an interesting test database. The actual
tests come after this comment.
#####
```

```
do_test fts3ac-1.2 {
 execsql {
 SELECT rowid FROM email WHERE email MATCH 'mark'
 }
} {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {
 execsql {
 SELECT rowid FROM email WHERE email MATCH 'susan'
 }
} {24 40}
do_test fts3ac-1.4 {
 execsql {
```

```

SELECT rowid FROM email WHERE email MATCH 'mark susan'
}
} {40}
do_test fts3ac-1.5 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'susan mark'
}
} {40}
do_test fts3ac-1.6 {
execsql {
SELECT rowid FROM email WHERE email MATCH "'mark susan'"
}
} {}
do_test fts3ac-1.7 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'mark -susan'
}
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
execsql {
SELECT rowid FROM email WHERE email MATCH '-mark susan'
}
} {24}
do_test fts3ac-1.9 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
}
} {6 17 24 25 38 40 42 73 74}

```

# Some simple tests of the automatic "offsets(email)" column. In the sample  
# data set above, only one message, number 20, contains the words  
# "gas" and "reminder" in both body and subject.  
#

```

do_test fts3ac-2.1 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE email MATCH 'subject:gas reminder'
}
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts3ac-2.3 {
execsql {
SELECT rowid, offsets(email) FROM email

```

```

WHERE email MATCH 'body:gas reminder'
}
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE subject MATCH 'gas reminder'
}
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE body MATCH 'gas reminder'
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

Document 32 contains 5 instances of the world "child". But only
3 of them are paired with "product". Make sure only those instances
that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE body MATCH 'child product' AND +rowid=32
}
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
execsql {
SELECT rowid, offsets(email) FROM email
WHERE body MATCH "'child product'"
}
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

Snippet generator tests
#
do_test fts3ac-4.1 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'subject:gas reminder'
}
} {{Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder}}
do_test fts3ac-4.2 {
execsql {
SELECT snippet(email) FROM email
WHERE email MATCH 'christmas candlelight'
}
} {{...here Christmas
eve?? They have an 11:00 a.m. service and a candlelight service...}}

```

```

do_test fts3ac-4.3 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture Deal Sheet...asset base for potential reuse/ licensing
 Contract negotiations...}}
do_test fts3ac-4.4 {
 execsql {
 SELECT snippet(email,'<<<','>>>',') FROM email
 WHERE email MATCH 'deal sheet potential reuse'
 }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing
 Contract negotiations }}
do_test fts3ac-4.5 {
 execsql {
 SELECT snippet(email,'<<<','>>>',') FROM email
 WHERE email MATCH 'first things'
 }
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now }}
do_test fts3ac-4.6 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'chris is here'
 }
} {{...chris.germany@enron.com" chris...bet this is next
to...about going here Christmas
eve...}}
do_test fts3ac-4.7 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH "pursuant to"
 }
} {{Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement,
together...}}
do_test fts3ac-4.8 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'ancillary load davis'
 }
} {{pete.davis@enron.com...3; No ancillary schedules awarded...detected in
Load schedule.

 LOG...}}

```

```
Combinations of AND and OR operators:
#
do_test fts3ac-5.1 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'questar enron OR com'
 }
} {{matt.smith@enron.com...31 Keystone Receipts
15 Questar Pipeline
40 Rockies...}}
```

```
do_test fts3ac-5.2 {
 execsql {
 SELECT snippet(email) FROM email
 WHERE email MATCH 'enron OR com questar'
 }
} {{matt.smith@enron.com...31 Keystone Receipts
15 Questar Pipeline
40 Rockies...}}
```

```
#-----
```

```
Test a problem reported on the mailing list.
```

```
#
```

```
do_test fts3ac-6.1 {
 execsql {
 CREATE VIRTUAL TABLE ft USING fts3(one, two);
 INSERT INTO ft VALUES(", 'foo');
 INSERT INTO ft VALUES('foo', 'foo');
 SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
 }
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
```

```
do_test fts3ac-6.2 {
 execsql {
 DELETE FROM ft WHERE one = 'foo';
 SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
 }
} {{1 0 0 3}}
```

```
finish_test
```

```
Found in path(s):
```

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNIVkuI7/sqlite-src-3071700/test/fts3ac.test
```

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

```
<html>
```

```
<title>SQLite Copyright Release Template</title>
```

```
<body bgcolor="white">
```

# <h1 align="center"> Copyright Release for<br> Contributions To SQLite </h1>

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<p>

<table width="100%" cellpadding="0" cellspacing="0">

<tr>

<td width="60%" valign="top">

Signature:

<p>&nbsp;</p>

<p>&nbsp;</p>

```
<p> </p>
</td><td valign="top" align="left">
Date:
</td></tr>
<td colspan=2>
Name (printed):
</td>
</tr>
</table>
</body>
</html>
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-
archive-d7GDY6A0/sqlite-doc-3071700.zip-cosi-expand-archive-3t3yK59c/sqlite-doc-3071700/copyright-
release.html
```

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

```
)print dup()cvs print
```

Found in path(s):

```
* {cvx $error/errname get(Error
```

## 1.228 libnuma 2.0.12-5.el7

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## 1.232 go-criu 4.1.0

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# 1.235 dhcp 4.2.5-83.el7.centos.1

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<!-- \$Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp \$ -->

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

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

```
<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="/refentry/docinfo/copyright | /book/bookinfo/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: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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```

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk,  
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,  
except the first one, were first implemented in the Buildtool project.  
They were later adapted to be part of Boost.Process and, during that  
process, the shell script was created.

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## 1.237 binutils 2.27-44.base.el7\_9.1

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

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Appendix: How to Apply These Terms to Your New Libraries

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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

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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

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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.

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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Ty Coon, President of Vice

That's all there is to it!  
@node Library Copying  
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License  
@center Version 2.1, February 1999

@display

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[This is the first released version of the Lesser GPL. It also counts  
as the successor of the GNU Library Public License, version 2, hence the  
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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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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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@page

@appendixsubsec 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.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end smallexample

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:

@smallexample

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

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## DEALINGS IN THE SOFTWARE.

(This file is under construction.) -\*- text -\*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS

back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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## 1.238 metrics 2.2.0

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## 1.239 lucene-expressions 8.10.1

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`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,`  
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See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
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analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java  
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analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

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## 1.240 jackson-databind 2.10.4

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

LZ4 Library  
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`analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`  
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# 1.245 goprotobuf 1.4.2

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# 1.247 log-rotate 3.8.6 19.el7

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Version 2, June 1991

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```

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

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

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## 1.248 boost 1.60.0

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```

```
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>
```

```
template <typename X>
```

```

struct f { using type = X; };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() { }
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>License — Boost.HigherOrderFunctions 0.6 documentation</title>

<link rel="stylesheet" href="../../_static/boostbook.css" type="text/css" />
<link rel="stylesheet" href="../../_static/pygments.css" type="text/css" />

<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
 URL_ROOT: './../',
 VERSION: '0.6',
 COLLAPSE_INDEX: false,
 FILE_SUFFIX: '.html',
 HAS_SOURCE: true,
 SOURCELINK_SUFFIX: '.txt'
};
</script>
<script type="text/javascript" src="../../_static/jquery.js"></script>
<script type="text/javascript" src="../../_static/underscore.js"></script>
<script type="text/javascript" src="../../_static/doctools.js"></script>
<link rel="index" title="Index" href="../../genindex.html" />
<link rel="search" title="Search" href="../../search.html" />
<link rel="prev" title="Acknowledgements" href="acknowledgements.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
</tr></table>

<div class="spirit-nav">


```

```


</div>
```

```
<div class="document">
<div class="chapter">
 <div class="body" role="main">
```

```
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```

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```

```
 (http://www.boost.org/LICENSE_1_0.txt)
```

```
--><div class="section" id="license">
```

```
<h1>License</h1>
```

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```

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```

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```

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ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER</p>
</div>
```

```
</div>
```

```
</div>
```

```
<div class="clearer"></div>
```

```
</div>
```

```
<div class="footer" role="contentinfo">
```

```
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
```

```
<td align="left"></td>
```

```
<td align="right"><div class="copyright-footer">
```

```
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```

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```
</p>
</div></td>
</tr></table>
</div>
</body>
</html>
<!DOCTYPE html>
<html>
<head></head>
<body>
<h3>
 Copyright Test
</h3>
<p class="copyright">
 1963, 1964, 1965 Jane Doe
</p>
<p class="copyright">
 2018 Joe Blow, John Coe
</p>
<p class="copyright">
 1977, 1985 Someone else
</p>
</body>
</html>
```

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//

// See <http://www.boost.org/libs/intrusive> for documentation.

//

////////////////////////////////////

#ifndef BOOST\_INTRUSIVE\_DETAIL\_MPL\_HPP

#define BOOST\_INTRUSIVE\_DETAIL\_MPL\_HPP

```

#ifndef BOOST_CONFIG_HPP
include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstdint>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;

```

```

using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
 static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
 static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
 static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME) \
 template <typename T> \
 struct boost_intrusive_has_type_ ## TNAME \
 { \
 template <typename X> \
 static char test(int, typename X::TNAME*); \
 \
 template <typename X> \
 static int test(...); \
 \
 static const bool value = (1 == sizeof(test<T>(0, 0))); \
 }; \
 \
 template <typename T, typename DefaultType> \
 struct boost_intrusive_default_type_ ## TNAME \
 { \
 struct DefaultWrap { typedef DefaultType TNAME; }; \
 \
 typedef typename \
 ::boost::intrusive::detail::if_c \
 < boost_intrusive_has_type_ ## TNAME<T>::value \
 , T, DefaultWrap>::type::TNAME type; \
 }; \
 //

```

```

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
 typename INSTANTIATION_NS_PREFIX \
 boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type \
//

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME) \
 INSTANTIATION_NS_PREFIX \
 boost_intrusive_has_type_ ## TNAME< T >::value \
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
 template <typename T, typename DefaultType> \
 struct boost_intrusive_eval_default_type_ ## TNAME \
 { \
 template <typename X> \
 static char test(int, typename X::TNAME*); \
 \
 template <typename X> \
 static int test(...); \
 \
 struct DefaultWrap \
 { typedef typename DefaultType::type TNAME; }; \
 \
 static const bool value = (1 == sizeof(test<T>(0, 0))); \
 \
 typedef typename \
 ::boost::intrusive::detail::eval_if_c \
 < value \
 , ::boost::intrusive::detail::identity<T> \
 , ::boost::intrusive::detail::identity<DefaultWrap> \
 >::type::TNAME type; \
 }; \
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
 typename INSTANTIATION_NS_PREFIX \
 boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type \
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) \
 template <class T>\
 struct TRAITS_PREFIX##_bool\
 {\
 template<bool Add>\

```

```

struct two_or_three {yes_type _[2 + Add];}\
template <class U> static yes_type test(...);\
template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,\
FUNC_NAME) \
template <typename U, typename Signature> \
class TRAITS_NAME \
{ \
private: \
template<Signature> struct helper;\
template<typename T> \
static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME*>); \
template<typename T> static ::boost::intrusive::detail::no_type test(...); \
public: \
static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \
struct TRAITS_NAME \
{ \
struct BaseMixin \
{ \
void FUNC_NAME(); \
}; \
struct Base : public Type, public BaseMixin { Base(); }; \
template <typename T, T t> class Helper{}; \
template <typename U> \
static ::boost::intrusive::detail::no_type test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME*>* = 0); \
static ::boost::intrusive::detail::yes_type test(...); \
static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
}; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME,\
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)

```

```

\
\
template <typename Type, class> \
struct TRAITS_NAME \
: public TRAITS_NAME##_ignore_signature<Type> \
{;} \
//

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
=====
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http://www.boost.org/LICENSE_1_0.txt)
=====

```

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```

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- implemented specific strategy or algorithm e.g. intersections

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]
```

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements for an [[@../.../libs/mpl/doc/refmanual/integral-constant.html](http://@../.../libs/mpl/doc/refmanual/integral-constant.html) Integral Constant type].

Please note that these types no longer inherit from ``mpl::true_`` or ``mpl::false_`` etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from ``integral_constant`` to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.

```
[endsect]
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
```

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<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">

<title>MPL Interoperability</title>

<link rel="stylesheet" href="../../doc/src/boostbook.css" type="text/css">

<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">

<link rel="home" href="../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">

<link rel="up" href="../index.html" title="Chapter&#160;1.&#160;Boost.TypeTraits">

<link rel="prev" href="intrinsic.html" title="Support for Compiler Intrinsic">

<link rel="next" href="examples.html" title="Examples">

</head>



```

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<td align="center">Libraries</td>
<td align="center">People</td>
<td align="center">FAQ</td>
<td align="center">More</td>
</tr></table>
<hr>
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href="..index.html"><a accesskey="n"
href="examples.html">
</div>
<div class="section">
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MPL
Interoperability
</h2></div></div></div>
<p>
All the value based traits in this library conform to MPL's requirements for
an Integral
Constant type.
</p>
<p>
Please note that these types no longer inherit from <code class="computeroutput">mpl::true_</code> or
<code class="computeroutput">mpl::false_</code> etc, and the library will no longer
implicitly include any MPL header. However there is an implicit conversion
from <code class="computeroutput">integral_constant</code> to the
corresponding MPL types, therefore tag-dispatching that uses MPL types in function
overloads will still work as before.
</p>
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<td align="left"></td>
<td align="right"><div class="copyright-footer">Copyright © 2000, 2011 Adobe Systems Inc, David
Abrahams,
Frederic Bron, Steve Cleary, Beman Dawes, Aleksey Gurtovoy, Howard Hinnant,
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```

```

 </p>
</div></td>
</tr></table>
<hr>
<div class="spirit-nav">
<a accesskey="h"
href="index.html"><a accesskey="n"
href="examples.html">
</div>
</body>
</html>
[/

```

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```

var group__group_ext_mpl =
[
 ["integral_c", "structboost_1_1mpl_1_1integral__c.html", null],
 ["list", "structboost_1_1mpl_1_1list.html", null],
 ["vector", "structboost_1_1mpl_1_1vector.html", null]

```

```

];
// Copyright Louis Dionne 2013-2017
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

int main() { }
////////////////////////////////////
//
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//
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/container for documentation.
//
////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstddef>

namespace boost {
namespace container {
namespace dtl {

```

```

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

```

```

template <class FirstType>
struct select1st
{
 typedef FirstType type;

 template<class T>
 const type& operator()(const T& x) const
 { return x.first; }

 template<class T>
 type& operator()(T& x)
 { return const_cast<type&>(x.first); }
};

template <class T, class=void>
struct is_transparent
{

```

```

 static const bool value = false;
};

template <class T>
struct is_transparent<T, typename T::is_transparent>
{
 static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
 : boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{};

} //namespace dtl {
} //namespace container {
} //namespace boost {

#include <boost/container/detail/config_end.hpp>

#ifdef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
////////////////////////////////////
//
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/interprocess for documentation.
//
////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
include <boost/config.hpp>
#endif

#
#if defined(BOOST_HAS_PRAGMA_ONCE)
pragma once
#endif

#include <cstddef>

namespace boost {

```

```

namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
 static const T value = val;
 typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
 static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
 char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
 typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
 bool C
 , typename T1
 , typename T2
 >
struct if_c

```

```

{
 typedef T1 type;
};

template<
 typename T1
 , typename T2
 >
struct if_c<false,T1,T2>
{
 typedef T2 type;
};

template<
 typename T1
 , typename T2
 , typename T3
 >
struct if_
{
 typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template<std::size_t S>
struct ls_zeros
{
 static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
 static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
 static const std::size_t value = 0;
};

} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {

#endif //ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

```

```

#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
 log = run(['git', 'log', '--follow',
 '--date=short', '--format=%aN%x09%ad', filename],
 universal_newlines=True)
 for line in log.splitlines():
 author, date = line.split('\t')
 if author != 'fix-copyright.py':
 yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
 def f():
 au = list(authors(filename))
 alldates = map(itemgetter(1), au)
 aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
 for author, records in groupby(aup, itemgetter(0)):
 dates = filter(None, map(itemgetter(1), records))
 if not dates: dates = alldates
 start = min(dates)
 end = max(dates)
 fmt = '{0}' if start.year == end.year else '{0}-{1}'
 line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
 key = (start, author)
 yield key, line
 return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
 # Find copyright block in original file
 prefix = set()
 names = []
 lines = []
 with open(filename, 'r') as f:
 content = list(f)
 for i, line in enumerate(content[:15]):
 m = re.match(r'^(?P<prefix>\W*)(\c)?\s*?copyright\s*(\c)?\s+\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$',
line, re.IGNORECASE)
 if m:
 d = m.groupdict()
 prefix.add(d['prefix'])
 lines.append(i)
 names.append(d['name'].strip())

```



```

if len(prefix) != 1:
 print 'Not found:', filename
 return
prefix = list(prefix)[0]

print filename
new = iter(new_copyright(filename, names))
with open(filename, 'w') as f:
 for i, line in enumerate(content):
 if i in lines:
 for repl in new:
 print >>f, prefix + repl
 else:
 print >>f, line,
pass

def all_files():
 ls = run(['git', 'ls-files'], universal_newlines=True)
 for filename in ls.splitlines():
 if magic.from_file(filename, mime=True).split('/')[0] == 'text':
 yield filename

for f in all_files():
 fix_copyright(f)

```

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[quickbook 1.5]

[copyright No year]

]

Maybe this should pass?

```
<?xml version="1.0" encoding="utf-8"?>
```

```
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```

```
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```

```
(See accompanying file LICENSE_1_0.txt or http://www.boost.org/LICENSE_1_0.txt)
```

```
-->
```

```
<section id="date_time.license">
```

```
<title>Boost Date-Time Library License</title>
```

```
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
```

```
<!--
```

```
<ulink url="../../index.htm">
```

```
<imagedata align="left"
```

```
format="GIF"
```

```
fileref="../../boost.png"
```

```
alt="C++ Boost" />
```

```
</ulink>-->
```

```
<!--hr /-->
```

```
<para>
```

The following is the overall license for the boost date\_time library. This notice is found in all source files related to the library.

```
</para>
```

```
<para>
```

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```
</para>
```

```
<para>
```

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```
</para>
```

```
<!--hr / -->
```

```
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
```

```
© 2000-2002
```

```
</section>
```

This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

 <title><no title> — Boost.HigherOrderFunctions 0.6 documentation</title>

 <link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
 <link rel="stylesheet" href="_static/pygments.css" type="text/css" />

 <script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
 URL_ROOT: './',
 VERSION: '0.6',
 COLLAPSE_INDEX: false,
 FILE_SUFFIX: '.html',
 HAS_SOURCE: true,
 SOURCELINK_SUFFIX: '.txt'
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
<link rel="index" title="Index" href="genindex.html" />
<link rel="search" title="Search" href="search.html" />
</head>
<body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"></td>
</tr></table>

<div class="spirit-nav">

</div>

 <div class="document">
<div class="chapter">
 <div class="body" role="main">

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```



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```
</div>
</div>
<div class="clearer"></div>
</div>
<div class="footer" role="contentinfo">
<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right"><div class="copyright-footer">
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 <p>Distributed under the Boost Software License, Version 1.0.
 (See accompanying file <code class="filename">LICENSE_1_0.txt</code> or copy at
 <a href="http://www.boost.org/LICENSE_1_0.txt"
 target="_top">http://www.boost.org/LICENSE_1_0.txt)
 </p>
</div></td>
</tr></table>
</div>
</body>
</html>
<!--
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-->
```

```

<!-- boost-no-inspect -->
<!-- HTML header for doxygen 1.8.9.1-->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/xhtml;charset=UTF-8"/>
<meta http-equiv="X-UA-Compatible" content="IE=9"/>
<meta name="generator" content="Doxygen 1.8.11"/>
<title>Boost.Hana: Boost.MPL adapters</title>
<link href="tabs.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript" src="dynsections.js"></script>
<link href="navtree.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="resize.js"></script>
<script type="text/javascript" src="navtreedata.js"></script>
<script type="text/javascript" src="navtree.js"></script>
<script type="text/javascript">
$(document).ready(initResizable);
$(window).load(resizeHeight);
</script>
<link href="search/search.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="search/searchdata.js"></script>
<script type="text/javascript" src="search/search.js"></script>
<script type="text/javascript">
$(document).ready(function() { init_search(); });
</script>
<script type="text/x-mathjax-config">
MathJax.Hub.Config({
 extensions: ["tex2jax.js"],
 jax: ["input/TeX", "output/HTML-CSS"],
});
// Copyright Louis Dionne 2013-2017
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MathJax.Hub.Config({
 "HTML-CSS": {
 linebreaks: {
 automatic: true,
 width: "75% container"
 }
 }
});
</script><script type="text/javascript" src="https://cdn.mathjax.org/mathjax/latest/MathJax.js"></script>
<link href="doxygen.css" rel="stylesheet" type="text/css" />
<!-- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>

```

```

<script type="text/javascript" src="highcharts-exporting.js"></script>
<script type="text/javascript" src="chart.js"></script>
<script type="text/javascript" src="hana.js"></script>
</head>
<body>
<div id="top"><!-- do not remove this div, it is closed by doxygen! -->
<div id="titlearea">
<table cellspacing="0" cellpadding="0">
<tbody>
<tr style="height: 56px;">
<td id="projectlogo"></td>
<td style="padding-left: 0.5em;">
<div id="projectname">Boost.Hana
 1.5.0
</div>
<div id="projectbrief">Your standard library for metaprogramming</div>
</td>
<td>
<div id="MSearchBox" class="MSearchBoxInactive">

<input type="text" id="MSearchField" value="Search" accesskey="S"
onfocus="searchBox.OnSearchFieldFocus(true)"
onblur="searchBox.OnSearchFieldFocus(false)"
onkeyup="searchBox.OnSearchFieldChange(event)"/>

</div>
</td>
</tr>
</tbody>
</table>
</div>
<!-- end header part -->
<!-- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search",false,'Search');
</script>
</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
<div id="nav-tree">
<div id="nav-tree-contents">
<div id="nav-sync" class="sync"></div>
</div>

```

```

</div>
<div id="splitbar" style="-moz-user-select:none;"
 class="ui-resizable-handle">
</div>
</div>
<script type="text/javascript">
$(document).ready(function(){initNavTree('group__group-ext-mpl.html','');});
</script>
<div id="doc-content">
<!-- window showing the filter options -->
<div id="MSearchSelectWindow"
 onmouseover="return searchBox.OnSearchSelectShow()"
 onmouseout="return searchBox.OnSearchSelectHide()"
 onkeydown="return searchBox.OnSearchSelectKey(event)">
</div>

<!-- iframe showing the search results (closed by default) -->
<div id="MSearchResultsWindow">
<iframe src="javascript:void(0)" frameborder="0"
 name="MSearchResults" id="MSearchResults">
</iframe>
</div>

<div class="header">
 <div class="summary">
Classes </div>
 <div class="headertitle">
<div class="title">Boost.MPL adapters<div class="ingroups">External adapters</div></div> </div>
</div><!--header-->
<div class="contents">
<h2 class="groupheader">Description</h2>
<p>Adapters for Boost.MPL containers. </p>
<table class="memberdecls">
<tr class="heading"><td colspan="2"><h2 class="groupheader">
Classes</h2></td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct </td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1integral__c.html">boost::mpl::integral_c<T, v ></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </td><td class="mdescRight">Adapter for IntegralConstants
from the Boost.MPL. More...
</td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2"> </td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct </td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1list.html">boost::mpl::list<T ></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </td><td class="mdescRight">Adapter for Boost.MPL lists.
More...
</td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2"> </td></tr>

```

```
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct </td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector< T ></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </td><td class="mdescRight">Adapter for Boost.MPL
vectors. More...
</td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2"> </td></tr>
</table>
</div><!-- contents -->
</div><!-- doc-content -->
<!--
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-->
<!-- boost-no-inspect -->
<!-- HTML footer for doxygen 1.8.9.1-->
<!-- start footer part -->
<div id="nav-path" class="navpath"><!-- id is needed for treeview function! -->

</div>
</body>
</html>
<!-- Copyright 2018 Paul Fultz II
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-->
```

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
 <articleinfo>
 <copyright>
 <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
 </copyright>
 <copyright>
 <year>2018</year> <holder>Joe Blow, John Coe</holder>
 </copyright>
 <copyright>
 <year>1977</year> <year>1985</year> <holder>Someone else</holder>
 </copyright>
 </articleinfo>
</article>
```

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```
#include <boost/mpl/fold.hpp>
```

```
#include <boost/mpl/push_back.hpp>
```

```
#include <boost/mpl/quote.hpp>
```

```
#include <boost/mpl/vector.hpp>
```

```
template <typename State, typename X>
```

```
struct f { using type = X; };
```

```
struct state { };
```

```
template <int i>
```

```
struct t { };
```

```
using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;
```

```
using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;
```

```
int main() { }
```

////

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////

[#mpl]

# MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp\_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

[/=====

Boost.Geometry (aka GGL, Generic Geometry Library)

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/\*

\*

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\*

\*/

#include "licence\_info.hpp"

#include "bcp\_imp.hpp"

#include "fileview.hpp"

#include <fstream>

#include <iomanip>

#include <cstring>

#include <stdexcept>

#include <boost/lexical\_cast.hpp>



```

#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
 const fs::path& root;
 const fs::path& file;
 split_path(const fs::path& r, const fs::path& f)
 : root(r), file(f){}
private:
 split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
 os << "<a href=\"" << (p.root / p.file).string() << "\">" << p.file.string() << "";
 return os;
}

std::string make_link_target(const std::string& s)
{
 // convert an arbitrary string into something suitable
 // for an <a> name:
 std::string result;
 for(unsigned i = 0; i < s.size(); ++i)
 {
 result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
 }
 return result;
}

void bcp_implementation::output_license_info()
{
 std::pair<const license_info*, int> licenses = get_licenses();

 std::map<int, license_data>::const_iterator i, j;
 i = m_license_data.begin();
 j = m_license_data.end();

 std::ofstream os(m_dest_path.string().c_str());
 if(!os)
 {
 std::string msg("Error opening ");

```

```

msg += m_dest_path.string();
msg += " for output.";
std::runtime_error e(msg);
boost::throw_exception(e);
}
os <<
"<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">\n"
"<html>\n"
"<head>\n"
"<title>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
os << " for " << *(m_module_list.begin());
}
os <<
"</title>\n"
"</head>\n"
"<body>\n"
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
os << " for " << *(m_module_list.begin());
}
os <<
"</H1>\n"
"<H2>Contents</h2>\n"
"<pre>Input Information\n";
if(!m_bsl_summary_mode)
os << "Licence Summary\n";
os << "Licence Details\n";

while(i != j)
{
// title:
os << " <A href=\"#\" << make_link_target(licenses.first[i->first].license_name)
<< "\">" << licenses.first[i->first].license_name << "\n";
++i;
}

os << "Files with no recognised license\n"
"Files with no recognised copyright holder\n";
if(!m_bsl_summary_mode)
{
os <<
"Moving to the Boost Software License...\n"
" Files that can be automatically converted to the Boost Software License\n"
" Files that can be manually converted to the Boost Software License\n"
" Files that can NOT be moved to the Boost Software License\n"

```

```

 " Authors we need to move to the Boost Software License\n"
 "Copyright Holder Information\n";
}
os <<
 "File Dependency Information\n"
 "</pre>";

//
// input Information:
//
os << "<h2>Input Information</h2>\n";
if(m_scan_mode)
 os << "<P>The following files were scanned for boost dependencies:
";
else
 os << "<P>The following Boost modules were checked:
";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
 os << *si << "
";
 ++si;
}
os << "<p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
//
// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
 "^[[:blank:]]*#[[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\d+)");
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
 int version = boost::lexical_cast<int>(what.str(1));
 os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
<< "</P>\n";
}

//
// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
 //

```

```

// start with the summary:
//
os << "<h2>Licence Summary</h2>\n";
while(i != j)
{
 // title:
 os <<
 "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
 // license text:
 os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
 // Copyright holders:
 os << "<P>This license is used by " << i->second.authors.size()
 << " authors and " << i->second.files.size()
 << " files <a href=\"#\" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)";
 os << "</P></BLOCKQUOTE>\n";
 ++i;
}
}
//
// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<h2>Licence Details</h2>\n";
while(i != j)
{
 // title:
 os <<
 "<H3><A name=\"\" << make_link_target(licenses.first[i->first].license_name)
 << "\">" << licenses.first[i->first].license_name << "</H3>\n";
 // license text:
 os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
 if(!m_bsl_summary_mode || (license_index >= 3))
 {
 // Copyright holders:
 os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
 std::set<std::string>::const_iterator x, y;
 x = i->second.authors.begin();
 y = i->second.authors.end();
 while(x != y)
 {
 os << *x << "
\n";
 ++x;
 }
 os << "</P></BLOCKQUOTE>\n";
 // Files using this license:

```

```

 os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
 std::set<fs::path, path_less>::const_iterator m, n;
 m = i->second.files.begin();
 n = i->second.files.end();
 while(m != n)
 {
 os << split_path(m_boost_path, *m) << "
\n";
 ++m;
 }
 os << "</P></BLOCKQUOTE>\n";
}
else
{
 os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
 os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
}
++license_index;
++i;
}
//
// Output list of files not found to be under license control:
//
os << "<h2>Files With No Recognisable Licence</h2>\n"
 "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>\n";
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
 os << split_path(m_boost_path, *i2) << "
\n";
 ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2>Files With No Recognisable Copyright Holder</h2>\n"
 "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n<BLOCKQUOTE><P>";
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
 os << split_path(m_boost_path, *i2) << "
\n";
 ++i2;
}

```

```

os << "</p></BLOCKQUOTE>";
if(!m_bsl_summary_mode)
{
//
// Output list of files that have been moved over to the Boost
// Software License, along with enough information for human
// verification.
//
os << "<h2>Files that can be automatically converted to the Boost Software
License</h2>\n"
 << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
if (!m_converted_to_bsl.empty())
{
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
 ie = m_converted_to_bsl.end();
int file_num = 1;
while (i != ie)
{
os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
 << "</tt>
\n<table border=\"1\">\n <tr>\n <td><pre>"
 << i->second.first << "</pre></td>\n <td><pre>"
 << i->second.second << "</pre></td>\n </tr>\n</table>\n";
 ++i;
 ++file_num;
}
}
//
// Output list of files that could be moved over to the Boost Software License
//
os << "<h2>Files that could be converted to the Boost Software License</h2>\n"
 "<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost
Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
os << split_path(m_boost_path, *i2) << "
\n";
 ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files that can not be moved over to the Boost Software License
//
os << "<h2>Files that can NOT be converted to the Boost Software
License</h2>\n"

```

"<P>The following " << m\_cannot\_migrate\_to\_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";

```
i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
 os << split_path(m_boost_path, *i2) << "
\n";
 ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2>Authors we need for the BSL</h2>\n"
```

"<P>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.</P>\n<BLOCKQUOTE><P>";

```
std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
 std::ostream_iterator<std::string>(os, "
\n"));
os << "</p></BLOCKQUOTE>";
//
// output a table of copyright information:
//
os << "<H2>Copyright Holder Information</H2><table border=\"1\">\n";
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
 os << "<tr><td>" << ad->first << "</td><td>";
 std::set<fs::path, path_less>::const_iterator fi, efi;
 fi = ad->second.begin();
 efi = ad->second.end();
 while(fi != efi)
 {
 os << split_path(m_boost_path, *fi) << " ";
 ++fi;
 }
 os << "</td></tr>\n";
 ++ad;
}
os << "</table>\n";
}
//
// output file dependency information:
//
os << "<H2>File Dependency Information</H2><BLOCKQUOTE><pre>\n";
```

```

std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
 bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
 bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
 bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
 bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
 typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
 ::const_iterator conv_iterator;
 conv_iterator i = m_converted_to_bsl.begin(),
 ie = m_converted_to_bsl.end();
 while(i != ie)
 {
 bad_paths.insert(i->first);
 ++i;
 }
 fi = bad_paths.begin();
 efi = bad_paths.end();
 os << "<P>For brevity, only files not under the BSL are shown</P>\n";
}
while(fi != efi)
{
 os << split_path(m_boost_path, *fi);
 dep = m_dependencies.find(*fi);
 last_dep = m_dependencies.end();
 std::set<fs::path, path_less> seen_deps;
 if (dep != last_dep)
 while(true)
 {
 os << " -> ";
 if(fs::exists(m_boost_path / dep->second))
 os << split_path(m_boost_path, dep->second);
 else if(fs::exists(dep->second))
 os << split_path(fs::path(), dep->second);
 else
 os << dep->second.string();
 if(seen_deps.find(dep->second) != seen_deps.end())
 {
 os << " <I>(Circular dependency!)</I>";
 break; // circular dependency!!!
 }
 seen_deps.insert(dep->second);
 last_dep = dep;
 }
}

```



```

 dep = m_dependencies.find(dep->second);
 if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
 break;
 }
 os << "\n";
 ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
 std::string msg("Error writing to ");
 msg += m_dest_path.string();
 msg += ".";
 std::runtime_error e(msg);
 boost::throw_exception(e);
}
}

```

## 1.249 theora 1.1.1-8.el7

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## 1.250 libcap-ng 0.7.5 4.el7

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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/SmoothRateLimiter.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingImmutableMap.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/TreeRangeMap.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/xml/package-info.java  
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jar/com/google/common/collect/DescendingImmutableSortedSet.java  
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jar/com/google/common/io/CharSource.java  
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jar/com/google/common/reflect/Parameter.java  
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info.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/EvictingQueue.java  
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jar/com/google/common/collect/ForwardingNavigableSet.java  
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jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
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jar/com/google/common/collect/TransformedIterator.java  
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jar/com/google/common/collect/FilteredMultimap.java  
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info.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/FilteredEntrySetMultimap.java  
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jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Constraints.java

\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/package-info.java

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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/EventBus.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ComparatorOrdering.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/Files.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/Closeables.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/LexicographicalOrdering.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Throwables.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SortedSetMultimap.java  
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jar/com/google/common/util/concurrent/AbstractFuture.java  
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jar/com/google/common/collect/Maps.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/NullsFirstOrdering.java  
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jar/com/google/common/base/AbstractIterator.java  
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jar/com/google/common/io/LineBuffer.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/Interner.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/eventbus/AllowConcurrentEvents.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
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jar/com/google/common/base/Functions.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/ListMultimap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/util/concurrent/ExecutionList.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/ObjectArrays.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-

jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/SetMultimap.java  
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jar/com/google/common/collect/ByFunctionOrdering.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/Multimap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/eventbus/DeadEvent.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/Ordering.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/LinkedHashMultimap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/eventbus/package-info.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Lists.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/io/ByteStreams.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/ReverseOrdering.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/AbstractListMultimap.java  
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jar/com/google/common/collect/BiMap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/UsingToStringOrdering.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/EnumBiMap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/primitives/Primitives.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/Iterables.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/Multisets.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/EnumHashBiMap.java  
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jar/com/google/common/collect/SingletonImmutableSet.java  
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jar/com/google/common/base/Function.java  
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jar/com/google/common/collect/TreeMultimap.java  
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jar/com/google/common/util/concurrent/package-info.java  
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jar/com/google/common/collect/ImmutableList.java  
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jar/com/google/common/base/Defaults.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/MapDifference.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/io/LittleEndianDataInputStream.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/io/CountingInputStream.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/io/OutputSupplier.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/base/Objects.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/NaturalOrdering.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/MapConstraints.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/ForwardingSortedSet.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-

jar/com/google/common/collect/ArrayListMultimap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/package-info.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/MultiInputStream.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractIterator.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/CompoundOrdering.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractMapBasedMultimap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/AbstractMapEntry.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Suppliers.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ConcurrentHashMultiset.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/CharStreams.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/LinkedListMultimap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/LinkedHashMultiset.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/eventbus/Subscribe.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/TreeMultiset.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingObject.java  
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jar/com/google/common/collect/ContiguousSet.java  
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jar/com/google/common/collect/HashBiMap.java

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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/net/UrlEscapers.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/SettableFuture.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Service.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AbstractIdleService.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RegularImmutableSortedSet.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ComparisonChain.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/EmptyImmutableSetMultimap.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/TypeResolver.java  
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jar/com/google/common/escape/Platform.java  
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jar/com/google/common/cache/LocalCache.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/ArrayTable.java  
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jar/com/google/common/collect/SingletonImmutableList.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/io/ByteProcessor.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/cache/CacheBuilder.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
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jar/com/google/common/net/InternetDomainName.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/base/Platform.java  
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jar/com/google/common/collect/ImmutableEnumSet.java  
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jar/com/google/common/collect/RegularImmutableList.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/util/concurrent/Callables.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/util/concurrent/ForwardingFuture.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Splitter.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/html/HtmlEscapers.java  
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jar/com/google/common/escape/ArrayBasedEscaperMap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/ImmutableTable.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/io/ByteArrayDataOutput.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/ImmutableSetMultimap.java

\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableAsList.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/annotations/GwtCompatible.java

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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/AbstractCache.java

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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/ExecutionError.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Ticker.java

\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AtomicLongMap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/FutureCallback.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/TypeParameter.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/GwtTransient.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/net/HostAndPort.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/RemovalListeners.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/Types.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/math/LongMath.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/LoadingCache.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/WrappingExecutorService.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RangeSet.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/ParseRequest.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableSortedMultiset.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/UnsignedLongs.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ForwardingSortedMultiset.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SortedIterable.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Count.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/UnsignedInteger.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/UnsignedLong.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/GeneralRange.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RegularImmutableSortedMultiset.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/UnsignedInts.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Cut.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/SparseImmutableTable.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RegularImmutableTable.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/Table.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RegularImmutableBiMap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/FluentIterable.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Booleans.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableMapKeySet.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableMap.java

\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/SerializingExecutor.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/RegularImmutableMap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/StandardRowSortedTable.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableMultimap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Chars.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/Escaper.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/UnmodifiableIterator.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/CharMatcher.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/CheckedFuture.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/EmptyImmutableListMultimap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/primitives/Bytes.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/HashBasedTable.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/base/Converter.java  
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jar/com/google/common/collect/ImmutableMultiset.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/ImmutableSortedSet.java  
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jar/com/google/common/collect/SingletonImmutableBiMap.java  
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jar/com/google/thirdparty/publicsuffix/TrieParser.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/StandardTable.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/ImmutableEntry.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/collect/Platform.java  
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jar/com/google/common/collect/Tables.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableRangeMap.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/collect/ImmutableRangeSet.java  
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\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/util/concurrent/MoreExecutors.java  
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jar/com/google/common/math/MathPreconditions.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/cache/Weigher.java  
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- \* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/io/PatternFilenameFilter.java
- \* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/CharEscaperBuilder.java
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- \* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/AggregateFuture.java
- \* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/Futures.java
- \* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/FakeTimeLimiter.java
- \* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/escape/CharEscaper.java
- \* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/reflect/TypeToken.java
- \* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
- \* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
- \* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
- \* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/util/concurrent/CollectionFuture.java

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jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/collect/ImmutableMapEntry.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
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jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1150909099_1617718347.03/0/guava-19-0-sources-5-
jar/com/google/common/util/concurrent/Runnables.java
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- \* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-jar/com/google/common/cache/LongAdder.java

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jar/com/google/common/util/concurrent/AggregateFutureState.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/util/concurrent/InterruptibleTask.java  
\* /opt/cola/permits/1150909099\_1617718347.03/0/guava-19-0-sources-5-  
jar/com/google/common/util/concurrent/Platform.java

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jar/com/google/common/collect/ImmutableSortedAsList.java

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<p>

Class, field, and method level annotations for describing thread-safety policies.

</p>

<p>

Three class-level annotations describe the *intended* thread-safety promises of a class:

`@Immutable`, `@ThreadSafe`, and `@NotThreadSafe`.

`@Immutable` means that the class is immutable, and implies `@ThreadSafe`.

`@NotThreadSafe` is optional;

if a class is not annotated as thread-safe, it should be presumed not to be thread-safe, but if you want to make it extra clear, use

`@NotThreadSafe`.

</p>

<p>

These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated by the annotation, such as verifying that a class annotated with `@Immutable` actually is immutable.

</p>

<h2>Field and method annotations</h2>

<p>

The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

</p>

<p>

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables. Documenting which variables are guarded by which locks can help prevent both types of omissions.

</p>

<p>

The `@GuardedBy(lock)` annotation documents that a field or method should be accessed only with a specific lock held.

</p>

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\* /opt/cola/permits/1135913176\_1613629761.33/0/jcip-annotations-1-0-sources-2-jar/net/jcip/annotations/GuardedBy.java  
\* /opt/cola/permits/1135913176\_1613629761.33/0/jcip-annotations-1-0-sources-2-jar/net/jcip/annotations/Immutable.java  
\* /opt/cola/permits/1135913176\_1613629761.33/0/jcip-annotations-1-0-sources-2-jar/net/jcip/annotations/NotThreadSafe.java

# 1.254 postfix 2.10.1-9.el7

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@c @appendixsubsec ADDENDUM: How to use this License for your documents

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@c Local Variables:

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

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\* Jamie Beverly

\* Rafael D'Halleweyn - 2011-06-05 18:56:24 EDT

\* Jan-Pieter Cornet ( johnpc ) - 2012-03-23 03:25:52 PDT

\* chrysn@fsfe.org

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## 1.260 util-linux 2.23.2-65.el7

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NR START END SECTORS SIZE NAME UUID

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1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
```

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Version 2.1, February 1999

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## 1.261 pcre 8.44

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jar/io/netty/resolver/HostsFileEntriesResolver.java  
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jar/io/netty/resolver/InetSocketAddressResolver.java  
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jar/io/netty/resolver/AddressResolver.java  
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## 1.266 ruby-progressbar 1.8.1



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\* /opt/cola/permits/1146079232\_1616457494.45/0/asm-9-1-sources-jar/org/objectweb/asm/signature/SignatureVisitor.java  
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# 1.276 zlib 1.2.7

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## 1.277 diff-lcs 1.2.5

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## 1.278 opensaml-soap-impl 3.4.5

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## 1.279 json-smart 2.4.2

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```
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```

Found in path(s):

```
* /opt/cola/permits/1185889273_1627998309.69/0/json-smart-2-4-2-jar/META-INF/maven/net.minidev/json-smart/pom.xml
```

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Manifest-Version: 1.0

Bnd-LastModified: 1617553143521

Build-Jdk: 11.0.9.1

Built-By: uriel

Bundle-Description: JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.

Bundle-DocURL: <https://urielch.github.io/>



Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>  
Bundle-ManifestVersion: 2  
Bundle-Name: json-smart  
Bundle-SymbolicName: net.minidev.json-smart  
Bundle-Vendor: Chemouni Uriel  
Bundle-Version: 2.4.2  
Created-By: Apache Maven Bundle Plugin  
Export-Package: net.minidev.json;uses:="net.minidev.asm,net.minidev.js  
on.parser,net.minidev.json.reader,net.minidev.json.writer";version="2  
.4.2",net.minidev.json.annotate;version="2.4.2",net.minidev.json.pars  
er;uses:="net.minidev.json.writer";version="2.4.2",net.minidev.json.r  
eader;uses:="net.minidev.json";version="2.4.2",net.minidev.json.write  
r;uses:="net.minidev.json,net.minidev.json.parser";version="2.4.2"  
Import-Package: net.minidev.asm;version="[2.4,3)",net.minidev.json,net  
.minidev.json.annotate,net.minidev.json.parser,net.minidev.json.reade  
r,net.minidev.json.writer  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-3.5.0.201709291849

Found in path(s):

\* /opt/cola/permits/1185889273\_1627998309.69/0/json-smart-2-4-2-jar/META-INF/MANIFEST.MF

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## 1.281 jakarta-mail 1.6.3

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#define \_KERBEROS\_MIT\_COPYRIGHT\_H

```
#pragma ident "@(#)mit-sipb-copyright.h 1.5 93/02/04 SMI"
```

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```

```
#define _KERBEROS_MIT_COPYRIGHT_H
```

```
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```

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#endif /* _KERBEROS_MIT_COPYRIGHT_H */
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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java  
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```

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

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\*/

/\*\*

\* Constructs a new {@link Textifier}. <i>Subclasses must not use this

\* constructor</i>. Instead, they must use the {@link #Textifier(int)}

\* version.

\*

\* @throws IllegalStateException

\* If a subclass calls this constructor.

\*/

Found in path(s):

\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/util/Textifier.java

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/\*\*

\* Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this

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

```

* {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
* version.
*
* @param owner
* the owner's class name.
* @param access
* the method's access flags (see {@link Opcodes}).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see {@link Type Type}).
* @param mv
* the method visitor to which this adapter delegates calls. May
* be <tt>null</tt>.
* @throws IllegalStateException
* If a subclass calls this constructor.
*/

```

Found in path(s):

```

* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java

```

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\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/TypePath.java

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 \*/  
 /\*\*  
 \* Constructs a new {@link LocalVariableAnnotationNode}. *<i>Subclasses must*  
 \* not use this constructor*</i>.* Instead, they must use the  
 \* {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}  
 \* version.  
 \*  
 \* @param typeRef  
 \* a reference to the annotated type. See {@link TypeReference}.  
 \* @param typePath  
 \* the path to the annotated type argument, wildcard bound, array  
 \* element type, or static inner type within 'typeRef'. May be  
 \* `<tt>null</tt>` if the annotation targets 'typeRef' as a whole.  
 \* @param start  
 \* the first instructions corresponding to the continuous ranges  
 \* that make the scope of this local variable (inclusive).  
 \* @param end  
 \* the last instructions corresponding to the continuous ranges  
 \* that make the scope of this local variable (exclusive). This  
 \* array must have the same size as the 'start' array.  
 \* @param index  
 \* the local variable's index in each range. This array must have  
 \* the same size as the 'start' array.  
 \* @param desc

```
* the class descriptor of the annotation class.
*/
```

Found in path(s):

```
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
```

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```
*/
```

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```
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
```

```
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/LineNumberNode.java
```

```
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/AbstractInsnNode.java
```

```
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/analysis/Frame.java
```

```
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
```

jar/org/objectweb/asm/tree/analysis/AnalyzerException.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/util/CheckAnnotationAdapter.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/util/TraceMethodVisitor.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/optimizer/ConstantPool.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/MethodWriter.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/Label.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/IntInsnNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/analysis/Analyzer.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/analysis/SmallSet.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/VarInsnNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/Edge.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/analysis/SourceValue.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/signature/SignatureWriter.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/FieldNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/TryCatchBlockNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/InnerClassNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/commons/LocalVariablesSorter.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/analysis/BasicValue.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/commons/InstructionAdapter.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/commons/Method.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/ByteVector.java

\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/commons/RemappingClassAdapter.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/Handle.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/InsnNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/optimizer/ClassOptimizer.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/InsnList.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/LocalVariableNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/AnnotationVisitor.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/TypeAnnotationNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/analysis/Value.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/util/CheckMethodAdapter.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/FieldInsnNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/optimizer/Constant.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/IincInsnNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java  
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\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/optimizer/NameMapping.java  
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\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/util/TraceFieldVisitor.java  
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\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/tree/AnnotationNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/commons/SimpleRemapper.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/optimizer/JarOptimizer.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java  
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\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-



jar/org/objectweb/asm/commons/Remapper.java  
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jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java  
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jar/org/objectweb/asm/tree/FrameNode.java  
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jar/org/objectweb/asm/tree/MethodInsnNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/ClassVisitor.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java  
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jar/org/objectweb/asm/util/Printer.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/ClassWriter.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/Attribute.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/analysis/Subroutine.java  
\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-  
jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java

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*/
/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

```

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* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
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\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/xml/ASMContentHandler.java  
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\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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jar/org/objectweb/asm/optimizer/shrink-frames.properties  
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jar/org/objectweb/asm/optimizer/shrink-annotations.properties  
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*/
/**

```

```

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

```

Found in path(s):

```

* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

```

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

```
/**
```

```
* ASM: a very small and fast Java bytecode manipulation framework
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*/
```

```
/**
```

```
* Creates a new {@link GeneratorAdapter}. Subclasses must not use this
* constructor. Instead, they must use the
* {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
* version.
*
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see {@link Opcodes}).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see {@link Type Type}).
* @throws IllegalStateException
* If a subclass calls this constructor.
*/
```



Found in path(s):

\* /opt/cola/permits/1136404724\_1613762512.96/0/asm-commons-5-0-4-sources-4-jar/org/objectweb/asm/commons/GeneratorAdapter.java

# 1.297 Iz4-java 1.2.0

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Version 2.0, January 2004

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# 1.299 pyliblzma 0.5.3

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```
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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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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- 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.

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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.

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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.)

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d) If distribution of the work is made by offering access to copy

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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.

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

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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.
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- 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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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.

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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.

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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.

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.)

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.

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<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

Ty Coon, President of Vice



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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.

@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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```
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```

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```
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```

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

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# 1.307 percolator-client 7.16.3

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# 1.308 highline 1.7.8

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## 1.309 fuzzyurl 0.9.0

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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:

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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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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.)

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

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

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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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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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.

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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.

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.

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jar/org/locationtech/spatial4j/distance/AbstractDistanceCalculator.java
* /opt/cola/permits/1136404733_1613763670.46/0/spatial4j-0-7-sources-4-
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- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/jts/JtsWKTRenderShapeParser.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/context/jts/JtsSpatialContext.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/Circle.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/package-info.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/jts/JtsGeometry.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/LegacyShapeReader.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/context/SpatialContext.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/impl/GeoCircle.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/impl/ShapeFactoryImpl.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/package-info.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/impl/CircleImpl.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/jts/JtsPoint.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/distance/DistanceCalculator.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/distance/package-info.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/context/jts/JtsSpatialContextFactory.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/context/package-info.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/ShapeCollection.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/Rectangle.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/Point.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/LegacyShapeWriter.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/shape/impl/PointImpl.java
- \* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-

jar/org/locationtech/spatial4j/shape/Shape.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/exception/InvalidShapeException.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/distance/GeodesicSphereDistCalc.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/shape/SpatialRelation.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/shape/impl/RectangleImpl.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-jar/org/locationtech/spatial4j/io/package-  
info.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/distance/CartesianDistCalc.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/shape/jts/JtsShapeFactory.java  
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\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/io/ShapeWriter.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/io/ShapeIO.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/shape/BaseShape.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/io/jts/JtsGeoJSONWriter.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/io/WKTWriter.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/io/SupportedFormats.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/io/jts/JtsWKTWriter.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/io/GeoJSONWriter.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/io/ShapeReader.java  
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jar/org/locationtech/spatial4j/shape/ShapeFactory.java  
\* /opt/cola/permits/1136404733\_1613763670.46/0/spatial4j-0-7-sources-4-  
jar/org/locationtech/spatial4j/io/OnePointsBuilder.java

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# 1.327 rubocop 0.42.0

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## 1.328 pcre 10.36

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THE BASIC LIBRARY FUNCTIONS

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## 1.332 d-conf 0.28.0 4.el7

## 1.333 libxfont 2.0.3-1.el7

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/\* lib/font/fontfile/gunzip.c

written by Mark Eichin <eichin@kitten.gen.ma.us> September 1996.

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- \* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-jar/org/antlr/v4/runtime/misc/LogManager.java
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jar/org/antlr/v4/runtime/tree/pattern/ParseTreePattern.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/PlusBlockStartState.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/tree/TerminalNode.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/tree/xpath/XPathLexerErrorListener.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/ANTLRInputStream.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/AmbiguityInfo.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/CommonToken.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/EpsilonTransition.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/tree/SyntaxTree.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/PredicateEvalInfo.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-

jar/org/antlr/v4/runtime/atn/LexerAction.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/misc/ObjectEqualityComparator.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/ArrayPredictionContext.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/CharStreams.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/ATNState.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/tree/TerminalNodeImpl.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/PredictionContext.java  
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jar/org/antlr/v4/runtime/atn/Transition.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/misc/Utils.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/misc/TestRig.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/misc/Pair.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/ATN.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/TokenFactory.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/BasicState.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/LexerActionExecutor.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/tree/RuleNode.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/LexerATNConfig.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/tree/ParseTree.java  
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jar/org/antlr/v4/runtime/atn/LexerChannelAction.java  
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jar/org/antlr/v4/runtime/atn/RuleStopState.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/ProxyErrorListener.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/misc/ParseCancellationException.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/UnbufferedTokenStream.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/PlusLoopbackState.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-

jar/org/antlr/v4/runtime/tree/xpath/XPath.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/tree/pattern/Chunk.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/CharStream.java  
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jar/org/antlr/v4/runtime/atn/PredicateTransition.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/misc/FlexibleHashMap.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/LexerActionType.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/misc/InterpreterDataReader.java  
\* /opt/cola/permits/1152298578\_1618215449.54/0/antlr4-runtime-4-9-2-sources-  
jar/org/antlr/v4/runtime/atn/BlockEndState.java

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## 1.340 netty-transport 4.1.66.Final

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 */
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline }.
 *
 * <h3>Sub-types</h3>
 * <p>
 * { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>{ @link ChannelInboundHandler } to handle inbound I/O events, and</li>
 * <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>
 * <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>
 * <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * </p>
 *
 * <h3>The context object</h3>
 * <p>
 * A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }
 * object. A { @link ChannelHandler } is supposed to interact with the
 * { @link ChannelPipeline } it belongs to via a context object. Using the
```



```

* context object, the { @link ChannelHandler } can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using { @link AttributeKey }s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A { @link ChannelHandler } often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends { @link SimpleChannelInboundHandler } &lt; Message &gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     { @code @Override }
*     public void channelRead0({ @link ChannelHandlerContext } ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where a unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See { @link ChannelInitializer#initChannel(Channel) }.
* public class DataServerInitializer extends { @link ChannelInitializer } &lt; { @link Channel } &gt; {
*     { @code @Override }
*     public void initChannel({ @link Channel } channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>

```

```

*
* <h4>Using { @link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey}s which is provided by
* { @link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final { @link AttributeKey}&lt;Boolean&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     { @code @Override}
*     public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*         { @link Attribute}&lt;Boolean&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;Channel&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*

```

```

*
* <h4>The { @code @Sharable } annotation</h4>
* <p>
* In the example above which used an { @link AttributeKey },
* you might have noticed the { @code @Sharable } annotation.
* <p>
* If a { @link ChannelHandler } is annotated with the { @code @Sharable }
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline }s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler }, and
* { @link ChannelPipeline } to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

```

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```

* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/ChannelHandler.java

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\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/io/netty/channel/PreferHeapByteBufAllocator.java

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\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java

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```
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/socket/nio/NioChannelOption.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/SimpleUserEventChannelHandler.java
```

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* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/pool/ChannelPoolMap.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
```

\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/io/netty/channel/pool/ChannelPool.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/io/netty/channel/pool/package-info.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

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\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/io/netty/channel/AbstractCoalescingBufferQueue.java

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jar/io/netty/channel/CoalescingBufferQueue.java

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jar/io/netty/channel/AbstractEventLoop.java

\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/ReflectiveChannelFactory.java

\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/PendingWriteQueue.java

\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/ChannelFactory.java

\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/embedded/EmbeddedChannelId.java

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\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-



jar/io/netty/channel/CompleteChannelFuture.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
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jar/io/netty/channel/ServerChannel.java  
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jar/io/netty/channel/ChannelHandlerContext.java  
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\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/ChannelException.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/ChannelOutboundHandlerAdapter.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/bootstrap/package-info.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/oio/AbstractOioMessageChannel.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/ThreadPerChannelEventLoop.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/ChannelDuplexHandler.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/socket/nio/NioDatagramChannel.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/FileRegion.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/socket/SocketChannel.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/CombinedChannelDuplexHandler.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-

jar/io/netty/channel/ChannelInboundHandler.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/local/package-info.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/EventLoopException.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/local/LocalChannelRegistry.java  
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\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/internal/package-info.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/DelegatingChannelPromiseNotifier.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/bootstrap/FailedChannel.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/PendingBytesTracker.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/socket/ChannelOutputShutdownException.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/internal/ChannelUtils.java

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```
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/StacklessClosedChannelException.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/socket/DuplexChannelConfig.java
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* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/ChannelHandlerMask.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/ExtendedClosedChannelException.java
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```
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/group/ChannelMatchers.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1182802235_1627053540.36/0/netty-transport-4-1-66-final-sources-
```

jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/AddressedEnvelope.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/DefaultMessageSizeEstimator.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/group/ChannelMatcher.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/bootstrap/ChannelFactory.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/ChannelProgressivePromise.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/DefaultChannelProgressivePromise.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/ChannelProgressiveFutureListener.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/group/ChannelGroupException.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/DefaultAddressedEnvelope.java  
\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-  
jar/io/netty/channel/DefaultChannelId.java

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\* /opt/cola/permits/1182802235\_1627053540.36/0/netty-transport-4-1-66-final-sources-jar/META-  
INF/maven/io.netty/netty-transport/pom.xml

## 1.341 elasticsearch-geo 7.16.3



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jar/org/objectweb/asm/util/CheckMethodAdapter.java
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\*/

Found in path(s):

\* /opt/cola/permits/1135935007\_1613638427.33/0/asm-util-7-2-sources-2-jar/org/objectweb/asm/util/ASMifierSupport.java

\* /opt/cola/permits/1135935007\_1613638427.33/0/asm-util-7-2-sources-2-jar/org/objectweb/asm/util/TextifierSupport.java

## 1.345 diffutils 3.3 5.e17

### 1.345.1 Available under license :

/\* diff - compare files line by line

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```
#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
```

```

#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <progname.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS \
proper_name ("Paul Eggert"), \
proper_name ("Mike Haertel"), \
proper_name ("David Hayes"), \
proper_name ("Richard Stallman"), \
proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
# define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
char *regexps; /* chars representing disjunction of the regexps */
size_t len; /* chars used in 'regexps' */
size_t size; /* size malloc'ed for 'regexps'; 0 if not malloc'ed */
bool multiple_regexps; /* Does 'regexps' represent a disjunction? */
struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));

```

```

static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories
   recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary).
   On POSIX hosts, this has no effect. */
static bool binary;
#else
enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty
   (--unidirectional-new-file). */
static bool unidirectional_new_file;

/* Report files compared that are the same (-s).
   Normally nothing is output when that happens. */
static bool report_identical_files;

static char const shortopts[] =
"0123456789abBcC:dD:eEfF:hHiI:lL:nNpPqrsS:tTuU:vwW:x:X:yZ";

/* Values for long options that do not have single-letter equivalents. */
enum
{
    BINARY_OPTION = CHAR_MAX + 1,
    FROM_FILE_OPTION,
    HELP_OPTION,
    HORIZON_LINES_OPTION,
    IGNORE_FILE_NAME_CASE_OPTION,
    INHIBIT_HUNK_MERGE_OPTION,
    LEFT_COLUMN_OPTION,
    LINE_FORMAT_OPTION,
    NO_DEREFERENCE_OPTION,
    NO_IGNORE_FILE_NAME_CASE_OPTION,

```



```

NORMAL_OPTION,
SDIFF_MERGE_ASSIST_OPTION,
STRIP_TRAILING_CR_OPTION,
SUPPRESS_BLANK_EMPTY_OPTION,
SUPPRESS_COMMON_LINES_OPTION,
TABSIZING_OPTION,
TO_FILE_OPTION,

/* These options must be in sequence. */
UNCHANGED_LINE_FORMAT_OPTION,
OLD_LINE_FORMAT_OPTION,
NEW_LINE_FORMAT_OPTION,

/* These options must be in sequence. */
UNCHANGED_GROUP_FORMAT_OPTION,
OLD_GROUP_FORMAT_OPTION,
NEW_GROUP_FORMAT_OPTION,
CHANGED_GROUP_FORMAT_OPTION
};

static char const group_format_option[][sizeof "--unchanged-group-format"] =
{
    "--unchanged-group-format",
    "--old-group-format",
    "--new-group-format",
    "--changed-group-format"
};

static char const line_format_option[][sizeof "--unchanged-line-format"] =
{
    "--unchanged-line-format",
    "--old-line-format",
    "--new-line-format"
};

static struct option const longopts[] =
{
    {"binary", 0, 0, BINARY_OPTION},
    {"brief", 0, 0, 'q'},
    {"changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION},
    {"context", 2, 0, 'C'},
    {"ed", 0, 0, 'e'},
    {"exclude", 1, 0, 'x'},
    {"exclude-from", 1, 0, 'X'},
    {"expand-tabs", 0, 0, 't'},
    {"forward-ed", 0, 0, 'f'},
    {"from-file", 1, 0, FROM_FILE_OPTION},
    {"help", 0, 0, HELP_OPTION},

```

```

{"horizon-lines", 1, 0, HORIZON_LINES_OPTION},
{"ifdef", 1, 0, 'D'},
{"ignore-all-space", 0, 0, 'w'},
{"ignore-blank-lines", 0, 0, 'B'},
{"ignore-case", 0, 0, 'i'},
{"ignore-file-name-case", 0, 0, IGNORE_FILE_NAME_CASE_OPTION},
{"ignore-matching-lines", 1, 0, 'T'},
{"ignore-space-change", 0, 0, 'b'},
{"ignore-tab-expansion", 0, 0, 'E'},
{"ignore-trailing-space", 0, 0, 'Z'},
{"inhibit-hunk-merge", 0, 0, INHIBIT_HUNK_MERGE_OPTION},
{"initial-tab", 0, 0, 'T'},
{"label", 1, 0, 'L'},
{"left-column", 0, 0, LEFT_COLUMN_OPTION},
{"line-format", 1, 0, LINE_FORMAT_OPTION},
{"minimal", 0, 0, 'd'},
{"new-file", 0, 0, 'N'},
{"new-group-format", 1, 0, NEW_GROUP_FORMAT_OPTION},
{"new-line-format", 1, 0, NEW_LINE_FORMAT_OPTION},
{"no-dereference", 0, 0, NO_DEREFERENCE_OPTION},
{"no-ignore-file-name-case", 0, 0, NO_IGNORE_FILE_NAME_CASE_OPTION},
{"normal", 0, 0, NORMAL_OPTION},
{"old-group-format", 1, 0, OLD_GROUP_FORMAT_OPTION},
{"old-line-format", 1, 0, OLD_LINE_FORMAT_OPTION},
{"paginate", 0, 0, 'I'},
{"rcs", 0, 0, 'n'},
{"recursive", 0, 0, 'r'},
{"report-identical-files", 0, 0, 's'},
{"sdiff-merge-assist", 0, 0, SDIFF_MERGE_ASSIST_OPTION},
{"show-c-function", 0, 0, 'p'},
{"show-function-line", 1, 0, 'F'},
{"side-by-side", 0, 0, 'y'},
{"speed-large-files", 0, 0, 'H'},
{"starting-file", 1, 0, 'S'},
{"strip-trailing-cr", 0, 0, STRIP_TRAILING_CR_OPTION},
{"suppress-blank-empty", 0, 0, SUPPRESS_BLANK_EMPTY_OPTION},
{"suppress-common-lines", 0, 0, SUPPRESS_COMMON_LINES_OPTION},
{"tabsize", 1, 0, TABSIZE_OPTION},
{"text", 0, 0, 'a'},
{"to-file", 1, 0, TO_FILE_OPTION},
{"unchanged-group-format", 1, 0, UNCHANGED_GROUP_FORMAT_OPTION},
{"unchanged-line-format", 1, 0, UNCHANGED_LINE_FORMAT_OPTION},
{"unidirectional-new-file", 0, 0, 'P'},
{"unified", 2, 0, 'U'},
{"version", 0, 0, 'v'},
{"width", 1, 0, 'W'},
{0, 0, 0, 0}
};

```

/\* Return a string containing the command options with which diff was invoked.

Spaces appear between what were separate ARGV-elements.

There is a space at the beginning but none at the end.

If there were no options, the result is an empty string.

Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT, the length of that vector. \*/

```
static char *
option_list (char **optionvec, int count)
{
  int i;
  size_t size = 1;
  char *result;
  char *p;

  for (i = 0; i < count; i++)
    size += 1 + shell_quote_length (optionvec[i]);

  p = result = xmalloc (size);

  for (i = 0; i < count; i++)
    {
      *p++ = ' ';
      p = shell_quote_copy (p, optionvec[i]);
    }

  *p = '\0';
  return result;
}
```

/\* Return an option value suitable for add\_exclude. \*/

```
static int
exclude_options (void)
{
  return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}
```

```
int
main (int argc, char **argv)
{
  int exit_status = EXIT_SUCCESS;
  int c;
  int i;
  int prev = -1;
```

```

lin ocontext = -1;
bool explicit_context = false;
size_t width = 0;
bool show_c_function = false;
char const *from_file = NULL;
char const *to_file = NULL;
uintmax_t numval;
char *numend;

/* Do our initializations. */
exit_failure = EXIT_TROUBLE;
initialize_main (&argc, &argv);
set_program_name (argv[0]);
setlocale (LC_ALL, "");
bindtextdomain (PACKAGE, LOCALEDIR);
textdomain (PACKAGE);
c_stack_action (0);
function_regexp_list.buf = &function_regexp;
ignore_regexp_list.buf = &ignore_regexp;
re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
excluded = new_exclude ();

/* Decode the options. */

while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
{
    switch (c)
    {
    case 0:
        break;

    case '0':
    case '1':
    case '2':
    case '3':
    case '4':
    case '5':
    case '6':
    case '7':
    case '8':
    case '9':
        if (! ISDIGIT (prev))
            ocontext = c - '0';
        else if (LIN_MAX / 10 < ocontext
            || ((ocontext = 10 * ocontext + c - '0') < 0))
            ocontext = LIN_MAX;
        break;

```

```

case 'a':
    text = true;
    break;

case 'b':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space = IGNORE_SPACE_CHANGE;
    break;

case 'Z':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TRAILING_SPACE;
    break;

case 'B':
    ignore_blank_lines = true;
    break;

case 'C':
case 'U':
    {
        if (optarg)
            {
                numval = strtoumax (optarg, &numend, 10);
                if (*numend)
                    try_help ("invalid context length '%s'", optarg);
                if (LIN_MAX < numval)
                    numval = LIN_MAX;
            }
        else
            numval = 3;

        specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
        if (context < numval)
            context = numval;
        explicit_context = true;
    }
    break;

case 'c':
    specify_style (OUTPUT_CONTEXT);
    if (context < 3)
        context = 3;
    break;

case 'd':
    minimal = true;
    break;

```

```

case 'D':
    specify_style (OUTPUT_IFDEF);
    {
        static char const C_ifdef_group_formats[] =
            "%s=%c#ifndef %s\n%<#endif /* ! %s *\n%c#ifdef %s\n%>#endif /* %s *\n%c#ifndef %s\n%<#else
/* %s *\n%>#endif /* %s *\n";
        char *b = xmalloc (sizeof C_ifdef_group_formats
            + 7 * strlen (optarg) - 14 /* 7*"%" */
            - 8 /* 5*"%" + 3*"%" */);
        sprintf (b, C_ifdef_group_formats,
            0,
            optarg, optarg, 0,
            optarg, optarg, 0,
            optarg, optarg, optarg);
        for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
            {
                specify_value (&group_format[i], b, "-D");
                b += strlen (b) + 1;
            }
        }
        break;

case 'e':
    specify_style (OUTPUT_ED);
    break;

case 'E':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TAB_EXPANSION;
    break;

case 'f':
    specify_style (OUTPUT_FORWARD_ED);
    break;

case 'F':
    add_regexp (&function_regexp_list, optarg);
    break;

case 'h':
    /* Split the files into chunks for faster processing.
       Usually does not change the result.

       This currently has no effect. */
    break;

case 'H':

```

```

speed_large_files = true;
break;

case 'i':
ignore_case = true;
break;

case 'T':
add_regexp (&ignore_regexp_list, optarg);
break;

case 'l':
if (!pr_program[0])
try_help ("pagination not supported on this host", NULL);
paginate = true;
#ifdef SIGCHLD
/* Pagination requires forking and waiting, and
System V fork+wait does not work if SIGCHLD is ignored. */
signal (SIGCHLD, SIG_DFL);
#endif
break;

case 'L':
if (!file_label[0])
file_label[0] = optarg;
else if (!file_label[1])
file_label[1] = optarg;
else
fatal ("too many file label options");
break;

case 'n':
specify_style (OUTPUT_RCS);
break;

case 'N':
new_file = true;
break;

case 'p':
show_c_function = true;
add_regexp (&function_regexp_list, "^[[:alpha:]]$_");
break;

case 'P':
unidirectional_new_file = true;
break;

```

```
case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
        context = 3;
    break;

case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version,
        AUTHORS, (char *) NULL);
    check_stdout ();
    return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
    if (add_exclude_file (add_exclude, excluded, optarg,
        exclude_options (), '\n'))
        pfatal_with_name (optarg);
```



```

break;

case 'y':
    specify_style (OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid width '%s'", optarg);
    if (width != numval)
        {
            if (width)
                fatal ("conflicting width options");
            width = numval;
        }
    break;

case BINARY_OPTION:
#ifdef O_BINARY
    binary = true;
    if (! isatty (STDOUT_FILENO))
        set_binary_mode (STDOUT_FILENO, O_BINARY);
#endif
    break;

case FROM_FILE_OPTION:
    specify_value (&from_file, optarg, "--from-file");
    break;

case HELP_OPTION:
    usage ();
    check_stdout ();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length '%s'", optarg);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
    break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward

```

```

        compatibility. */
break;

case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
    break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
    break;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
    sdiff_merge_assist = true;
    break;

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
    break;

case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
    break;

case TABSIZE_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize '%s'", optarg);
    if (tabsize != numval)
        {

```

```

    if (tabsize)
fatal ("conflicting tabsize options");
    tabsize = numval;
}
break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_LINE_FORMAT_OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value (&group_format[c], optarg, group_format_option[c]);
break;

default:
    try_help (NULL, NULL);
}
    prev = c;
}

if (output_style == OUTPUT_UNSPECIFIED)
{
    if (show_c_function)
{
        specify_style (OUTPUT_CONTEXT);
        if (ocontext < 0)
            context = 3;
    }
    else
specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
    #if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \

```

```

    || defined HAVE_STRUCT_STAT_ST_SPARE1)
    time_format = "%Y-%m-%d %H:%M:%S.%N %z";
#else
    time_format = "%Y-%m-%d %H:%M:%S %z";
#endif
}
else
{
    /* See POSIX 1003.1-2001 for this format. */
    time_format = "%a %b %e %T %Y";
}

if (0 <= ocontext
    && (output_style == OUTPUT_CONTEXT
    || output_style == OUTPUT_UNIFIED)
    && (context < ocontext
    || (ocontext < context && ! explicit_context)))
    context = ocontext;

if (! tabsize)
    tabsize = 8;
if (! width)
    width = 130;

{
    /* Maximize first the half line width, and then the gutter width,
       according to the following constraints:

1. Two half lines plus a gutter must fit in a line.
2. If the half line width is nonzero:
    a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
    b. If tabs are not expanded to spaces,
a half line plus a gutter is an integral number of tabs,
so that tabs in the right column line up. */

    intmax_t t = expand_tabs ? 1 : tabsize;
    intmax_t w = width;
    intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
    sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off)),
    sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that
   shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
    horizon_lines = context;

summarize_regexp_list (&function_regexp_list);

```

```

summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
{
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
if (!line_format[i])
    line_format[i] = "%l\n";
    if (!group_format[OLD])
group_format[OLD]
    = group_format[CHANGED] ? group_format[CHANGED] : "%<";
    if (!group_format[NEW])
group_format[NEW]
    = group_format[CHANGED] ? group_format[CHANGED] : "%>";
    if (!group_format[UNCHANGED])
group_format[UNCHANGED] = "%=";
    if (!group_format[CHANGED])
group_format[CHANGED] = concat (group_format[OLD],
    group_format[NEW], "");
}

no_diff_means_no_output =
(output_style == OUTPUT_IFDEF ?
    (!*group_format[UNCHANGED]
    || (STREQ (group_format[UNCHANGED], "%=")
    && !*line_format[UNCHANGED]))
    : (output_style != OUTPUT_SDIFF) | suppress_common_lines);

files_can_be_treated_as_binary =
(brief & binary
    & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
    | (ignore_regexp_list.regexp | ignore_white_space)));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
{
    if (to_file)
fatal ("--from-file and --to-file both specified");
    else
for (; optind < argc; optind++)
    {
        int status = compare_files (NULL, from_file, argv[optind]);
        if (exit_status < status)
            exit_status = status;
    }
}
else
{

```

```

    if (to_file)
for (; optind < argc; optind++)
{
    int status = compare_files (NULL, argv[optind], to_file);
    if (exit_status < status)
        exit_status = status;
}
else
{
    if (argc - optind != 2)
    {
        if (argc - optind < 2)
try_help ("missing operand after '%s'", argv[argc - 1]);
        else
try_help ("extra operand '%s'", argv[optind + 2]);
    }

    exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
}
}

/* Print any messages that were saved up for last. */
print_message_queue ();

check_stdout ();
exit (exit_status);
return exit_status;
}

/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);

    if (m != 0)
        error (0, 0, "%s: %s", pattern, m);
    else
    {
        char *regexps = reglist->regexps;
        size_t len = reglist->len;
        bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
        size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
        size_t size = reglist->size;

        if (size <= newlen)

```

```

{
  if (!size)
    size = 1;

  do size *= 2;
  while (size <= newlen);

  reglist->size = size;
  reglist->regexps = regexps = xrealloc (regexps, size);
}
  if (multiple_regexps)
  {
    regexps[len++] = '\\';
    regexps[len++] = '|';
  }
  memcpy (regexps + len, pattern, patlen + 1);
}
}

/* Ensure that REGLIST represents the disjunction of its regexps.
   This is done here, rather than earlier, to avoid O(N^2) behavior. */

static void
summarize_regexp_list (struct regexp_list *reglist)
{
  if (reglist->regexps)
  {
    /* At least one regexp was specified. Allocate a fastmap for it. */
    reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
    if (reglist->multiple_regexps)
    {
      /* Compile the disjunction of the regexps.
         (If just one regexp was specified, it is already compiled.) */
      char const *m = re_compile_pattern (reglist->regexps, reglist->len,
        reglist->buf);
      if (m)
        error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
    }
  }
}

static void
try_help (char const *reason_msgid, char const *operand)
{
  if (reason_msgid)
    error (0, 0, _(reason_msgid), operand);
  error (EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
    program_name);
}

```

```

abort ();
}

static void
check_stdout (void)
{
if (ferror (stdout))
    fatal ("write failed");
else if (fclose (stdout) != 0)
    pfatal_with_name (_("standard output"));
}

static char const * const option_help_msgid[] = {
N_(" --normal          output a normal diff (the default)"),
N_(" -q, --brief       report only when files differ"),
N_(" -s, --report-identical-files report when two files are the same"),
N_(" -c, -C NUM, --context[=NUM] output NUM (default 3) lines of copied context"),
N_(" -u, -U NUM, --unified[=NUM] output NUM (default 3) lines of unified context"),
N_(" -e, --ed          output an ed script"),
N_(" -n, --rcs         output an RCS format diff"),
N_(" -y, --side-by-side output in two columns"),
N_(" -W, --width=NUM   output at most NUM (default 130) print columns"),
N_(" --left-column     output only the left column of common lines"),
N_(" --suppress-common-lines do not output common lines"),
"",
N_(" -p, --show-c-function show which C function each change is in"),
N_(" -F, --show-function-line=RE show the most recent line matching RE"),
N_(" --label LABEL     use LABEL instead of file name\n"
"                    (can be repeated)"),
"",
N_(" -t, --expand-tabs  expand tabs to spaces in output"),
N_(" -T, --initial-tab  make tabs line up by prepending a tab"),
N_(" --tabsize=NUM     tab stops every NUM (default 8) print columns"),
N_(" --suppress-blank-empty suppress space or tab before empty output lines"),
N_(" -l, --paginate    pass output through 'pr' to paginate it"),
"",
N_(" -r, --recursive   recursively compare any subdirectories found"),
N_(" --no-dereference  don't follow symbolic links"),
N_(" -N, --new-file     treat absent files as empty"),
N_(" --unidirectional-new-file treat absent first files as empty"),
N_(" --ignore-file-name-case ignore case when comparing file names"),
N_(" --no-ignore-file-name-case consider case when comparing file names"),
N_(" -x, --exclude=PAT  exclude files that match PAT"),
N_(" -X, --exclude-from=FILE exclude files that match any pattern in FILE"),
N_(" -S, --starting-file=FILE start with FILE when comparing directories"),
N_(" --from-file=FILE1  compare FILE1 to all operands;\n"
"                    FILE1 can be a directory"),
N_(" --to-file=FILE2   compare all operands to FILE2;\n"

```



```

"          FILE2 can be a directory"),
"",
N_("-i, --ignore-case          ignore case differences in file contents"),
N_("-E, --ignore-tab-expansion  ignore changes due to tab expansion"),
N_("-Z, --ignore-trailing-space ignore white space at line end"),
N_("-b, --ignore-space-change   ignore changes in the amount of white space"),
N_("-w, --ignore-all-space     ignore all white space"),
N_("-B, --ignore-blank-lines    ignore changes where lines are all blank"),
N_("-I, --ignore-matching-lines=RE ignore changes where all lines match RE"),
"",
N_("-a, --text                  treat all files as text"),
N_(" --strip-trailing-cr       strip trailing carriage return on input"),
#if O_BINARY
N_(" --binary                  read and write data in binary mode"),
#endif
"",
N_("-D, --ifdef=NAME            output merged file with '#ifdef NAME' diffs"),
N_(" --GTYPE-group-format=GFMT  format GTYPE input groups with GFMT"),
N_(" --line-format=LFMT         format all input lines with LFMT"),
N_(" --LTYPE-line-format=LFMT   format LTYPE input lines with LFMT"),
N_(" These format options provide fine-grained control over the output\n"
  " of diff, generalizing -D/--ifdef."),
N_(" LTYPE is 'old', 'new', or 'unchanged'. GTYPE is LTYPE or 'changed'."),
N_(" GFMT (only) may contain:\n\
%< lines from FILE1\n\
%> lines from FILE2\n\
%= lines common to FILE1 and FILE2\n\
%[-][[WIDTH]][.[PREC]]{doxX}LETTER printf-style spec for LETTER\n\
LETTERS are as follows for new group, lower case for old group:\n\
F first line number\n\
L last line number\n\
N number of lines = L-F+1\n\
E F-1\n\
M L+1\n\
%(A=B?T:E) if A equals B then T else E"),
N_(" LFMT (only) may contain:\n\
%L contents of line\n\
%l contents of line, excluding any trailing newline\n\
%[-][[WIDTH]][.[PREC]]{doxX}n printf-style spec for input line number"),
N_(" Both GFMT and LFMT may contain:\n\
%% %\n\
%c'C' the single character C\n\
%c'\OOO' the character with octal code OOO\n\
C the character C (other characters represent themselves)"),
"",
N_("-d, --minimal              try hard to find a smaller set of changes"),
N_(" --horizon-lines=NUM      keep NUM lines of the common prefix and suffix"),
N_(" --speed-large-files      assume large files and many scattered small changes"),

```

```

"",
N_(" --help          display this help and exit"),
N_(" -v, --version   output version information and exit"),
"",
N_("FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'."),
N_("If --from-file or --to-file is given, there are no restrictions on FILE(s)."),
N_("If a FILE is '-', read standard input."),
N_("Exit status is 0 if inputs are the same, 1 if different, 2 if trouble."),
0
};

```

```
static void
```

```
usage (void)
```

```
{
```

```
char const * const *p;
```

```
printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
```

```
printf ("%s\n\n", _("Compare FILES line by line."));
```

```
fputs (_("\n
```

```
Mandatory arguments to long options are mandatory for short options too.\n
```

```
"), stdout);
```

```
for (p = option_help_msgid; *p; p++)
```

```
{
```

```
if (!**p)
```

```
putchar ('\n');
```

```
else
```

```
{
```

```
char const *msg = _(*p);
```

```
char const *nl;
```

```
while ((nl = strchr (msg, '\n')))
```

```
{
```

```
int msglen = nl + 1 - msg;
```

```
printf (" %.*s", msglen, msg);
```

```
msg = nl + 1;
```

```
}
```

```
printf (" %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
```

```
}
```

```
}
```

```
emit_bug_reporting_address ();
```

```
}
```

```
/* Set VAR to VALUE, reporting an OPTION error if this is a
conflict. */
```

```
static void
```

```
specify_value (char const **var, char const *value, char const *option)
```

```

{
if (*var && ! STREQ (*var, value))
{
error (0, 0, _("conflicting %s option value '%s'"), option, value);
try_help (NULL, NULL);
}
*var = value;
}

/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
if (output_style != style)
{
if (output_style != OUTPUT_UNSPECIFIED)
try_help ("conflicting output style options", NULL);
output_style = style;
}
}

/* Set the last-modified time of *ST to be the current time. */

static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC
gettime (&STAT_TIMESPEC (st, st_mtim));
#else
struct timespec t;
gettime (&t);
st->st_mtime = t.tv_sec;
# if defined STAT_TIMESPEC_NS
STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
# elif defined HAVE_STRUCT_STAT_ST_SPARE1
st->st_spare1 = t.tv_nsec / 1000;
# endif
#endif
}

/* Compare two files (or dirs) with parent comparison PARENT
and names NAME0 and NAME1.
(If PARENT is null, then the first name is just NAME0, etc.)
This is self-contained; it opens the files and closes them.

Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if
different, EXIT_TROUBLE if there is a problem opening them. */

```

```

static int
compare_files (struct comparison const *parent,
               char const *name0,
               char const *name1)
{
    struct comparison cmp;
#define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
    register int f;
    int status = EXIT_SUCCESS;
    bool same_files;
    char *free0;
    char *free1;

    /* If this is directory comparison, perhaps we have a file
       that exists only in one of the directories.
       If so, just print a message to that effect. */

    if (!(name0 && name1)
        || (unidirectional_new_file && name1)
        || new_file))
    {
        char const *name = name0 ? name0 : name1;
        char const *dir = parent->file[!name0].name;

        /* See POSIX 1003.1-2001 for this format. */
        message ("Only in %s: %s\n", dir, name);

        /* Return EXIT_FAILURE so that diff_dirs will return
           EXIT_FAILURE ("some files differ"). */
        return EXIT_FAILURE;
    }

    memset (cmp.file, 0, sizeof cmp.file);
    cmp.parent = parent;

    /* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */

#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

    cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
    cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

    /* Now record the full name of each file, including nonexistent ones. */

    if (!name0)

```

```

    name0 = name1;
if (!name1)
    name1 = name0;

if (!parent)
{
    free0 = NULL;
    free1 = NULL;
    cmp.file[0].name = name0;
    cmp.file[1].name = name1;
}
else
{
    cmp.file[0].name = free0
= file_name_concat (parent->file[0].name, name0, NULL);
    cmp.file[1].name = free1
= file_name_concat (parent->file[1].name, name1, NULL);
}

/* Stat the files. */

for (f = 0; f < 2; f++)
{
    if (cmp.file[f].desc != NONEXISTENT)
{
    if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
    {
        cmp.file[f].desc = cmp.file[0].desc;
        cmp.file[f].stat = cmp.file[0].stat;
    }
    else if (STREQ (cmp.file[f].name, "-"))
    {
        cmp.file[f].desc = STDIN_FILENO;
        if (binary && ! isatty (STDIN_FILENO))
set_binary_mode (STDIN_FILENO, O_BINARY);
        if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
        else
        {
            if (S_ISREG (cmp.file[f].stat.st_mode))
            {
                off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
                if (pos < 0)
cmp.file[f].desc = ERRNO_ENCODE (errno);
                else
cmp.file[f].stat.st_size =
                MAX (0, cmp.file[f].stat.st_size - pos);
            }
        }
    }
}
}

```

```

/* POSIX 1003.1-2001 requires current time for
   stdin. */
set_mtime_to_now (&cmp.file[f].stat);
}
}
else if ((no_dereference_symlinks
         ? lstat (cmp.file[f].name, &cmp.file[f].stat)
         : stat (cmp.file[f].name, &cmp.file[f].stat))
         != 0)
    cmp.file[f].desc = ERRNO_ENCODE (errno);
}
}

/* Mark files as nonexistent as needed for -N and -P, if they are
   inaccessible empty regular files (the kind of files that 'patch'
   creates to indicate nonexistent backups), or if they are
   top-level files that do not exist but their counterparts do
   exist. */
for (f = 0; f < 2; f++)
    if ((new_file || (f == 0 && unidirectional_new_file))
        && (cmp.file[f].desc == UNOPENED
            ? (S_ISREG (cmp.file[f].stat.st_mode)
              && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
              && cmp.file[f].stat.st_size == 0)
            : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
              || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
              && ! parent
              && (cmp.file[1 - f].desc == UNOPENED
                  || cmp.file[1 - f].desc == STDIN_FILENO))))
        cmp.file[f].desc = NONEXISTENT;

for (f = 0; f < 2; f++)
    if (cmp.file[f].desc == NONEXISTENT)
        {
        memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
        cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
        }

for (f = 0; f < 2; f++)
    {
    int e = ERRNO_DECODE (cmp.file[f].desc);
    if (0 <= e)
        {
        errno = e;
        perror_with_name (cmp.file[f].name);
        status = EXIT_TROUBLE;
        }
    }

```

```

}

if (status == EXIT_SUCCESS && !parent && DIR_P (0) != DIR_P (1))
{
    /* If one is a directory, and it was specified in the command line,
    use the file in that dir with the other file's basename. */

    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
= find_dir_file_pathname (dir, last_component (fnm));

    if (STREQ (fnm, "-"))
fatal ("cannot compare '-' to a directory");

    if ((no_dereference_symlinks
? lstat (filename, &cmp.file[dir_arg].stat)
: stat (filename, &cmp.file[dir_arg].stat)
!= 0)
{
    perror_with_name (filename);
    status = EXIT_TROUBLE;
}
}

if (status != EXIT_SUCCESS)
{
    /* One of the files should exist but does not. */
}
else if (cmp.file[0].desc == NONEXISTENT
&& cmp.file[1].desc == NONEXISTENT)
{
    /* Neither file "exists", so there's nothing to compare. */
}
else if ((same_files
= (cmp.file[0].desc != NONEXISTENT
&& cmp.file[1].desc != NONEXISTENT
&& 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
&& same_file_attributes (&cmp.file[0].stat,
&cmp.file[1].stat)))
&& no_diff_means_no_output)
{
    /* The two named files are actually the same physical file.
We know they are identical without actually reading them. */
}
else if (DIR_P (0) & DIR_P (1))

```

```

{
    if (output_style == OUTPUT_IFDEF)
fatal ("-D option not supported with directories");

    /* If both are directories, compare the files in them. */

    if (parent && !recursive)
{
    /* But don't compare dir contents one level down
    unless -r was specified.
    See POSIX 1003.1-2001 for this format. */
    message ("Common subdirectories: %s and %s\n",
    cmp.file[0].name, cmp.file[1].name);
}
    else
status = diff_dirs (&cmp, compare_files);
}
else if ((DIR_P (0) | DIR_P (1))
    || (parent
        && !((S_ISREG (cmp.file[0].stat.st_mode)
            || S_ISLNK (cmp.file[0].stat.st_mode)
            && (S_ISREG (cmp.file[1].stat.st_mode)
                || S_ISLNK (cmp.file[1].stat.st_mode))))))
{
    if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
{
    /* We have a subdirectory that exists only in one directory. */

    if ((DIR_P (0) | DIR_P (1))
        && recursive
        && (new_file
            || (unidirectional_new_file
                && cmp.file[0].desc == NONEXISTENT)))
status = diff_dirs (&cmp, compare_files);
    else
    {
        char const *dir;

        /* PARENT must be non-NULL here. */
        assert (parent);
        dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

        /* See POSIX 1003.1-2001 for this format. */
        message ("Only in %s: %s\n", dir, name0);

        status = EXIT_FAILURE;
    }
}
}

```



```

else
{
/* We have two files that are not to be compared. */

/* See POSIX 1003.1-2001 for this format. */
message5 ("File %s is a %s while file %s is a %s\n",
file_label[0] ? file_label[0] : cmp.file[0].name,
file_type (&cmp.file[0].stat),
file_label[1] ? file_label[1] : cmp.file[1].name,
file_type (&cmp.file[1].stat));

/* This is a difference. */
status = EXIT_FAILURE;
}
}
else if (S_ISLNK (cmp.file[0].stat.st_mode)
|| S_ISLNK (cmp.file[1].stat.st_mode))
{
/* We get here only if we use lstat(), not stat(). */
assert (no_dereference_symlinks);

if (S_ISLNK (cmp.file[0].stat.st_mode)
&& S_ISLNK (cmp.file[1].stat.st_mode))
{
/* Compare the values of the symbolic links. */
char *link_value[2] = { NULL, NULL };

for (f = 0; f < 2; f++)
{
link_value[f] = xreadlink (cmp.file[f].name);
if (link_value[f] == NULL)
{
perror_with_name (cmp.file[f].name);
status = EXIT_TROUBLE;
break;
}
}
if (status == EXIT_SUCCESS)
{
if ( ! STREQ (link_value[0], link_value[1]))
{
message ("Symbolic links %s and %s differ\n",
cmp.file[0].name, cmp.file[1].name);
/* This is a difference. */
status = EXIT_FAILURE;
}
}
}
for (f = 0; f < 2; f++)

```

```

    free (link_value[f]);
}
else
{
/* We have two files that are not to be compared, because
   one of them is a symbolic link and the other one is not. */

message5 ("File %s is a %s while file %s is a %s\n",
    file_label[0] ? file_label[0] : cmp.file[0].name,
    file_type (&cmp.file[0].stat),
    file_label[1] ? file_label[1] : cmp.file[1].name,
    file_type (&cmp.file[1].stat));

/* This is a difference. */
status = EXIT_FAILURE;
}
}
else if (files_can_be_treated_as_binary
    && S_ISREG (cmp.file[0].stat.st_mode)
    && S_ISREG (cmp.file[1].stat.st_mode)
    && cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
    message ("Files %s and %s differ\n",
        file_label[0] ? file_label[0] : cmp.file[0].name,
        file_label[1] ? file_label[1] : cmp.file[1].name);
    status = EXIT_FAILURE;
}
else
{
/* Both exist and neither is a directory. */

/* Open the files and record their descriptors. */

int oflags = O_RDONLY | (binary ? O_BINARY : 0);

if (cmp.file[0].desc == UNOPENED)
if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
{
    perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
}
if (cmp.file[1].desc == UNOPENED)
{
if (same_files)
    cmp.file[1].desc = cmp.file[0].desc;
else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
{
    perror_with_name (cmp.file[1].name);

```

```

        status = EXIT_TROUBLE;
    }
}

/* Compare the files, if no error was found. */

    if (status == EXIT_SUCCESS)
status = diff_2_files (&cmp);

/* Close the file descriptors. */

    if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
{
    perror_with_name (cmp.file[0].name);
    status = EXIT_TROUBLE;
}
    if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc
&& close (cmp.file[1].desc) != 0)
{
    perror_with_name (cmp.file[1].name);
    status = EXIT_TROUBLE;
}
}

/* Now the comparison has been done, if no error prevented it,
and STATUS is the value this function will return. */

if (status == EXIT_SUCCESS)
{
    if (report_identical_files && !DIR_P (0))
message ("Files %s and %s are identical\n",
    file_label[0] ? file_label[0] : cmp.file[0].name,
    file_label[1] ? file_label[1] : cmp.file[1].name);
}
else
{
    /* Flush stdout so that the user sees differences immediately.
This can hurt performance, unfortunately. */
    if (fflush (stdout) != 0)
pfatal_with_name (_("standard output"));
}

free (free0);
free (free1);

return status;
}

```

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## 1.347 xmlsec 1.2.20 7.el7\_4

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References  
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\* AOL  
<http://www.aleksey.com/pipermail/xmlsec/2003/005488.html>  
<http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm>

\* Cordys R&D BV  
<http://www.aleksey.com/pipermail/xmlsec/2003/005581.html>

\* Cryptocom LTD

<http://www.aleksey.com/pipermail/xmlsec/2006/007410.html>

# 1.348 opensaml-xmlsec-impl 3.4.5

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```
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```
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```
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```

```
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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

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Ty Coon, President of Vice

That's all there is to it!

# 1.350 lang-mustache-client 7.16.3

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Ty Coon, President of Vice

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## 1.355 jts-core 1.15.0

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# 1.356 mapper-extras-client 7.16.3

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Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential

Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means. The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

### 13. GENERAL PROVISIONS

#### 13.1. Marketing

Digia may include Licensee's company name and logo in a publicly available list of Digia customers and in its public communications.

#### 13.2. No Assignment

Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Digia, which shall not be unreasonably withheld. Digia shall be entitled to assign or transfer any of its rights, benefits or obligations under this Agreement on an unrestricted basis.

#### 13.3. Termination

Digia may terminate the Agreement at any time immediately upon written notice by Digia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party. Upon termination of the Licenses, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.

#### 13.4. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections 2, 5.1, 6, 7, 8(iii), 10, 12, 13.5, 13.6, 13.9, 13.10, and 13.11 shall survive the termination of the Agreement. Notwithstanding the foregoing, Sections 5.1 shall not survive if the Agreement is terminated for material breach.

#### 13.5. Entire Agreement

This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable

according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

### 13.6. Payment and Taxes

If credit has been extended to Licensee by Digia, all payments under this Agreement are due within thirty (30) days of the date Digia mails its invoice to Licensee. If Digia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Digia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.

### 13.7. Force Majeure

Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A "Force Majeure" event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party from fulfilling its obligations under this Agreement.

### 13.8. Notices

Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.

Notices to Digia shall be given to:

Digia USA, Inc  
2350 Mission College Blvd.  
Suite 1020  
Santa Clara, CA 95054  
U.S.A.  
Fax: + 1 408 433 9360

### 13.9. Export Control

Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and/or Modified Software and/or Applications and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software, Modified Software or Applications.

### 13.10. Governing Law and Legal Venue

This Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions. Any disputes arising out of or relating to this Agreement shall be resolved in arbitration under the Rules of Arbitration of the Chamber of Commerce of Helsinki, Finland. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language.

### 13.11 No Implied License

There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall remain with Digia and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software and/or Modified Software, as applicable, with any other software or hardware not delivered by Digia under this Agreement.

### 13.12 Government End Users

A "U.S. Government End User" shall mean any agency or entity of the government of the United States. The following shall apply if Licensee is a U.S. Government End User. The Licensed Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire the Licensed Software with only those rights set forth herein. The Licensed Software (including related documentation) is provided to U.S. Government End Users: (a) only as a commercial end item; and (b) only pursuant to this Agreement.

## QT COMMERCIAL EMBEDDED DEVELOPER LICENSE AGREEMENT

DIGIA USA INC. | SUITE 203 | 2880 ZANKER ROAD | SAN JOSE | CA 95134 | U.S.A. |  
FAX + 1 408 433 9360

PLACE OF REGISTERED OFFICE: DELAWARE | WWW.DIGIA.COM

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/* *                                                                    */
/* *                                                                    */
/* * Parts of this software have been adapted from the libpng package.   */
/* * Although this library supports all features from the PNG specification */
/* * (as MNG descends from it) it does not require the libpng package.   */
/* * It does require the zlib library and optionally the IJG jpeg library, */
/* * and/or the "little-cms" library by Marti Maria (depending on the     */
/* * inclusion of support for JNG and Full-Color-Management respectively. */
/* *                                                                    */
/* * This library's function is primarily to read and display MNG         */
/* * animations. It is not meant as a full-featured image-editing       */
/* * component! It does however offer creation and editing functionality  */
/* * at the chunk level.                                                 */
/* * (future modifications may include some more support for creation    */
/* * and or editing)                                                     */
/* *                                                                    */
/* *                                                                    */
/* *                                                                    */

```

## QT EMBEDDED DEVELOPER LICENSE AGREEMENT

Agreement version 1.5.2

This Embedded Developer License Agreement for Qt ("Agreement") is a legal agreement between Digia Finland Ltd ("Digia"), with its registered office at Valimotie 21, FI-00380 Helsinki, Finland and you (either an individual or a legal entity) ("Licensee") for the Licensed Software (as defined below).

### 1. DEFINITIONS

"Affiliate" of a Party shall mean an entity (i) which is directly or indirectly controlling such Party; (ii) which is under the same direct or indirect ownership or control as such Party; or (iii) which is directly or indirectly owned or

controlled by such Party. For these purposes, an entity shall be treated as being controlled by another if that other entity has fifty percent (50 %) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.

"Applications" shall mean Licensee's software products created using the Licensed Software which may include portions of the Licensed Software.

"Deployment Platforms" shall mean the operating system(s) listed in the License Certificate onto which Licensee is authorized to deploy Applications.

"Designated User(s)" shall mean the employee(s) of Licensee acting within the scope of their employment or Licensee's consultant(s) or contractor(s) acting within the scope of their services for Licensee and on behalf of Licensee.

"Development Platforms" shall mean the operating system(s) listed in the License Certificate on which Licensee may use, develop and modify the Licensed Software.

"Initial Term" shall mean the period of time one (1) year from the later of (a) the Effective Date; or (b) the date the Licensed Software was initially delivered to Licensee by Digia. If no specific Effective Date is set forth in the Agreement, the Effective Date shall be deemed to be the date the Licensed Software was initially delivered to Licensee.

"License Certificate" shall mean the document accompanying the Licensed Software which specifies the modules which are licensed under the Agreement, Development Platforms, Deployment Platforms and Designated Users.

"Licensed Software" shall mean the computer software, "online" or electronic documentation, associated media and printed materials, including the source code, example programs and the documentation delivered by Digia to Licensee in conjunction with this Agreement. Licensed Software does not include Third Party Software (as defined in Section 7).

"Modified Software" shall mean modifications made to the Licensed Software by Licensee.

"Nokia shall mean Digia Plc, a corporation incorporated under the laws of Finland, having its registered office at PO box 226, 00045 Nokia Group, Finland (visiting address Keilalahdentie 4, 02150 Espoo, Finland) and registered with the Finnish Trade Register under business ID 0112038-9 and acting on behalf of its respective Affiliates.

"Party or Parties" shall mean Licensee and/or Digia.

"Support" shall mean standard developer support that is provided by Digia to assist eligible Designated Users in using the Licensed Software in accordance with its established standard support procedures listed at: <http://qt.digia.com>.

"Updates" shall mean a release or version of the Licensed Software containing enhancements, new features, bug fixes, error corrections and other changes that are generally made available to users of the Licensed Software that have contracted for maintenance and support.

## 2. OWNERSHIP

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To the extent Licensee submits bug fixes or error corrections, including information related thereto, Licensee hereby grants to Digia a sublicensable, irrevocable, perpetual, worldwide, non-exclusive, royalty-free and fully paid-up copyright and trade secret license to reproduce, adapt, translate, modify, and prepare derivative works of, publicly display, publicly perform, sublicense, make available and distribute error corrections and bug fixes, including derivative works thereof. All Digia's and/or its licensors' trademarks, service marks, trade names, logos or other words or symbols are and shall remain the exclusive property of Digia or its licensors respectively.

## 3. MODULES

Some of the files in the Licensed Software have been grouped into modules. These files contain specific notices defining the module of which they are a part. The modules licensed to Licensee are specified in the License Certificate accompanying the Licensed Software. The terms of the License Certificate are considered part of the

Agreement. In the event of inconsistency or conflict between the language of this Agreement and the License Certificate, the provisions of this Agreement shall govern.

#### 4. VALIDITY OF THE AGREEMENT

By installing, copying, or otherwise using the Licensed Software, Licensee agrees to be bound by the terms of this Agreement. If Licensee does not agree to the terms of this Agreement, Licensee should not install, copy, or otherwise use the Licensed Software. In addition, by installing, copying, or otherwise using any Updates or other components of the Licensed Software that Licensee receives separately as part of the Licensed Software, Licensee agrees to be bound by any additional license terms that accompany such Updates, if any. If Licensee does not agree to the additional license terms that accompany such Updates, Licensee should not install, copy, or otherwise use such Updates.

Upon Licensee's acceptance of the terms and conditions of this Agreement, Digia grants Licensee the right to use the Licensed Software in the manner provided below.

#### 5. LICENSES

##### 5.1 Using, Modifying and Copying

Digia grants to Licensee a non-exclusive, non-transferable, perpetual license to use, modify and copy the Licensed Software for Designated Users specified in the License Certificate for the sole purposes of:

- (i) designing, developing, and testing Application(s);
- (ii) modifying the Licensed Software as limited by Section 8 below; and
- (iii) compiling the Licensed Software and/or Modified Software source code into object code.

Licensee may install copies of the Licensed Software on an unlimited number of computers provided that only the Designated Users use the Licensed Software. Licensee may at any time designate another Designated User to replace a then-current Designated User by notifying Digia, provided that a) the then-current Designated User has not been designated as a replacement during the last six (6) months; and b) there is no more than the specified number of Designated Users at any given time.

##### 5.2 No Distribution and Limited Exception

Licensee may not distribute, transfer, assign or otherwise dispose of the Licensed Software and/or Modified Software, except as provided by a separate distribution agreement with Digia for the Deployment Platforms that Licensee has licensed from Digia. Distribution on Platforms, other than Deployment Platforms is strictly prohibited. Notwithstanding the above limitation, Licensee may distribute Application(s) in binary/compiled form onto devices, provided the core functionality of the device does not depend on the Application(s).

##### 5.3 Further Requirements

It is expressly acknowledged and understood by Licensee, that Licensee is strictly prohibited from using Licensed Software for creation of mobile phones or tablet computers targeted for consumer end users.

The aforementioned shall not prohibit Licensee from using Licensed Software for the purpose of creating of applications for any devices, including mobile phone and tablet computers.

Notwithstanding anything contrary to this Agreement, it is expressly acknowledged and understood by Licensee, that Nokia shall hereby be named as a third party beneficiary under this Agreement with respect to this Section 5.3. Therefore, Nokia shall have the same rights as Digia under this Agreement with respect to this Section 5.3, and shall be entitled to exercise such rights independent from Digia.

The licenses granted in this Section 5 by Digia to Licensee and Licensee Affiliates are subject to Licensee and Licensee Affiliate's compliance with Section 8 of this Agreement.

#### 6. VERIFICATION

Digia or a certified auditor on Digia's behalf, may, upon its reasonable request and at its expense, audit Licensee with respect to the use of the Licensed Software. Such audit may be conducted by mail, electronic means or through an in-person visit to Licensee's place of business. Any such in-person audit shall be conducted during regular business hours at Licensee's facilities and shall not unreasonably interfere with Licensee's business activities. Digia will not remove, copy, or redistribute any electronic material during the course of an audit. If an audit reveals that Licensee is using the Licensed Software in a way that is in material violation of the terms of the Agreement, then Licensee shall pay Digia's reasonable costs of conducting the audit. In the case of a material violation, Licensee agrees to pay Digia any amounts owing that are attributable to the unauthorized use. In the alternative, Digia reserves the right, at Digia's sole option, to terminate the licenses for the Licensed Software.

## 7. THIRD PARTY SOFTWARE

The Licensed Software may provide links to third party libraries or code (collectively "Third Party Software") to implement various functions. Third Party Software does not comprise part of the Licensed Software. In some cases, access to Third Party Software may be included along with the Licensed Software delivery as a convenience for development and testing only. Such source code and libraries may be listed in the ".../src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software where the Third Party Software is used, as may be amended from time to time, do not comprise the Licensed Software. Licensee acknowledges (i) that some part of Third Party Software may require additional licensing of copyright and patents from the owners of such, and (ii) that distribution of any of the Licensed Software referencing any portion of a Third Party Software may require appropriate licensing from such third parties.

## 8. CONDITIONS FOR CREATING APPLICATIONS

The licenses granted in this Agreement for Licensee to create, modify and distribute Applications is subject to all of the following conditions: (i) all copies of the Applications Licensee creates must bear a valid copyright notice either Licensee's own or the copyright notice that appears on the Licensed Software; (ii) Licensee may not remove or alter any copyright, trademark or other proprietary rights notice contained in any portion of the Licensed Software including but not limited to the About Boxes; (iii) Licensee will indemnify and hold Digia, its Affiliates, contractors, and its suppliers, harmless from and against any claims or liabilities arising out of the use, reproduction or distribution of Applications; (iv) Applications must be developed using a licensed, registered copy of the Licensed Software; (v) Applications must add primary and substantial functionality to the Licensed Software; (vi) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; however Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s); (vii) Licensee may create Modified Software that breaks the source or binary compatibility with the Licensed Software. This includes, but is not limited to, changing the application programming interfaces ("API") by adding, changing or deleting any variable, method, or class signature in the Licensed Software, the inter-process QCop specification, and/or any inter-process protocols, services or standards in the Licensed Software libraries. To the extent that Licensee breaks source or binary compatibility with the Licensed Software, Licensee acknowledges that Digia's ability to provide Support may be prevented or limited and Licensee's ability to make use of Updates may be restricted; (viii) Applications may not compete with the Licensed Software; (ix) Licensee may not use Digia's or any of its suppliers' names, logos, or trademarks to market Applications, except to state that Licensee's Application was developed using the Licensed Software.

NOTE: The Open Source Editions of Qt products and the Qt, Qtopia and Qt Extended versions licensed by Digia and previously licensed by Nokia and Trolltech (collectively referred to as "Qt Open-source Products") are licensed under the terms of the GNU Lesser General Public License version 2.1 ("LGPL") and/or the GNU General Public License versions 2.0 and 3.0 ("GPL") (as applicable) and not under this Agreement. If Licensee or another third party, has, at any time, developed all (or any portions of) the Application(s) using a version of one of these Qt Open-

source Products licensed under the LGPL or the GPL, Licensee may not combine such development work with the Licensed Software and must license such Application(s) (or any portions derived there from) under the terms of the GNU Lesser General Public License version 2.1 (Qt only) or GNU General Public License version 2.0 (Qt, Qtopia and Qt Extended) or version 3 (Qt only) copies of which are located at <http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>, <http://www.fsf.org/licensing/licenses/info/GPLv2.html>, and <http://www.gnu.org/copyleft/gpl.html>.

#### 9. LIMITED WARRANTY AND WARRANTY DISCLAIMER

Digia hereby represents and warrants with respect to the Licensed Software that it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement. Except as set forth above, the Licensed Software is licensed to Licensee "as is". To the maximum extent permitted by applicable law, Digia on behalf of itself, its suppliers and licensors, disclaims all warranties and conditions, either express or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, title and non-infringement with regard to the Licensed Software.

#### 10. LIMITATION OF LIABILITY

If, Digia's warranty disclaimer notwithstanding, Digia is held to be liable to Licensee whether in contract, tort, or any other legal theory, based on the Licensed Software, Digia's entire liability to Licensee and Licensee's exclusive remedy shall be, at Digia's option, either (a) return of the price Licensee paid for the Licensed Software, or (b) repair or replacement of the Licensed Software, provided Licensee returns to Digia all copies of the Licensed Software as originally delivered to Licensee. Digia shall not under any circumstances be liable to Licensee based on failure of the Licensed Software if the failure resulted from accident, abuse or misapplication, nor shall Digia, under any circumstances, be liable for special damages, punitive or exemplary damages, damages for loss of profits or interruption of business or for loss or corruption of data. Any award of damages from Digia to Licensee shall not exceed the total amount Licensee has paid to Digia in connection with this Agreement.

#### 11. SUPPORT AND UPDATES

Licensee will be eligible to receive Support and Updates during the Initial Term, in accordance with Digia's then current policies and procedures, if any. Such policies and procedures may be changed from time to time. Following the Initial Term, Digia shall no longer make the Licensed Software available to Licensee unless Licensee purchases additional Support and Updates according to this Section 11 below.

Licensee may purchase additional Support and Updates following the Initial Term at Digia's terms and conditions applicable at the time of renewal.

#### 12. CONFIDENTIALITY

Each party acknowledges that during the Initial Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information").

Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public

through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means. The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

### 13. GENERAL PROVISIONS

#### 13.1. Marketing

Digia may include Licensee's company name and logo in a publicly available list of Digia customers and in its public communications.

#### 13.2. No Assignment

Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Digia, which shall not be unreasonably withheld. Digia shall be entitled to assign or transfer any of its rights, benefits or obligations under this Agreement on an unrestricted basis.

#### 13.3. Termination

Digia may terminate the Agreement at any time immediately upon written notice by Digia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party. Upon termination of the Licenses, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.

#### 13.4. Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections 2, 5.1, 6, 7, 8(iii), 10, 12, 13.5, 13.6, 13.9, 13.10, and 13.11 shall survive the termination of the Agreement. Notwithstanding the foregoing, Sections 5.1 shall not survive if the Agreement is terminated for material breach.

#### 13.5. Entire Agreement

This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement

shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

#### 13.6. Payment and Taxes

If credit has been extended to Licensee by Digia, all payments under this Agreement are due within thirty (30) days of the date Digia mails its invoice to Licensee. If Digia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Digia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including original withholding tax certificates.

#### 13.7. Force Majeure

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### 13.5 Entire Agreement

This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

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### 13.7 Force Majeure

Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A "Force Majeure" event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party from fulfilling its obligations under this Agreement.

### 13.8 Notices

Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.

Notices to Digia shall be given to:

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Attn: Qt Commercial

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FI-00380 Helsinki

Finland

Fax: +358 10 313 3700

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### Appendix 1

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- The Licensed Software's help tool in object code/executable form ("Qt Assistant")
- The Licensed Software's internationalization tools in object code/executable form ("Qt Linguist", "lupdate", "lrelease")
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- The Licensed Software's documentation
- The Licensed Software's tool for writing makefiles ("qmake")
- The Licensed Software's Meta Object Compiler ("moc")
- The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic")
- The Licensed Software's Resource Compiler ("rcc")
- The Licensed Software's generator (only in the case of Qt Jambi if applicable)
- The Licensed Software's Qt SDK

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#### Copyright FAQ

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##### 1. I don't understand the resale restriction... What gives?

Bitstream is giving away these fonts, but wishes to ensure its competitors can't just drop the fonts as is into a font sale system and sell them as is. It seems fair that if Bitstream can't make money from the Bitstream Vera fonts, their competitors should not be able to do so either. You can sell the fonts as part of any software package, however.

##### 2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin with, and you aren't selling them independently by themselves.

See 1. above.

3. Are derivative works allowed?

Yes!

4. Can I change or add to the font(s)?

Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

You must change the name(s) of the fonts. This is to ensure the quality of the fonts, both to protect Bitstream and Gnome. We want to ensure that if an application has opened a font specifically of these names, it gets what it expects (though of course, using fontconfig, substitutions could still could have occurred during font opening). You must include the Bitstream copyright. Additional copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get adopted in future versions?

Yes. The contract between the Gnome Foundation and Bitstream has provisions for working with Bitstream to ensure quality additions to the Bitstream Vera font family. Please contact us if you have such additions. Note, that in general, we will want such additions for the entire family, not just a single font, and that you'll have to keep both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add glyphs to the font, they must be stylistically in keeping with Vera's design. Vera cannot become a "ransom note" font. Jim Lyles will be providing a document describing the design elements used in Vera, as a guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see [www.fontconfig.org](http://www.fontconfig.org)) to handle font configuration, selection and substitution; it has provisions for overriding font names and substituting alternatives. An example is provided by the

supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.  
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Version 3, 29 June 2007

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

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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.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. 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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(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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## 11. SUPPORT AND UPDATES

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## 12. CONFIDENTIALITY

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Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means. The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

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### 13.3 Termination

Digia may terminate the Agreement at any time immediately upon written notice by Digia to Licensee if Licensee breaches this Agreement.

Either party shall have the right to terminate this Agreement immediately upon written notice in the event that the other party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other party. Upon termination of this Agreement, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.

### 13.4 Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections: 2, 5.1, 6, 7, 8(iv), 10, 12, 13.5, 13.6, 13.9, 13.10 and 13.11 of this Agreement. Notwithstanding the foregoing, Section 5.1 shall not survive if the Agreement is terminated for material breach.

### 13.5 Entire Agreement

This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 12. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

### 13.6 Payment and Taxes

If credit has been extended to Licensee by Digia, all payments under this Agreement are due within thirty (30) days of the date Digia mails its invoice to Licensee. If Digia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Digia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including

original withholding tax certificates.

### 13.7 Force Majeure

Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A "Force Majeure" event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party for fulfilling its obligations under this Agreement.

### 13.8 Notices

Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.

Notices to Digia shall be given to:

Digia Finland Ltd

Attn: Qt / Legal

Valimotie 21

FI-00380 Helsinki

Finland

Fax: +358 10 313 3700

### 13.9 Export Control

Licensee acknowledges that the Licensed Software may be subject to export control restrictions of various countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the importation of the Licensed Software and/or Modified Software and/or Applications and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Licensed Software, Modified Software or Applications.

### 13.10 Governing Law and Legal Venue

This Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions. Any disputes, controversy or claim arising out of or relating to this Agreement, or the breach, termination or validity thereof shall be finally settled by arbitration in accordance with the Arbitration Rules of the Central Chamber of Commerce of Finland. The arbitration tribunal shall consist of one (1), or if either Party so requires, of three (3), arbitrators. The award shall be final and binding and enforceable in any court of competent jurisdiction. The arbitration shall be held in Helsinki, Finland and the process shall be conducted in the English language.

### 13.11 No Implied License

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Qt LICENSE AGREEMENT

Agreement version 3.9.2

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"Affiliate" of a Party shall mean an entity (i) which is directly or indirectly controlling such Party; (ii) which is under the same direct or indirect ownership or control as such Party; or (iii) which is directly or indirectly owned or controlled by such Party. For these purposes, an entity shall be treated as being controlled by another if that other entity has fifty percent (50 %) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.

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disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by employees of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means. The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 12, this Section 12 shall be controlling over the terms of the Non-Disclosure Agreement.

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#### 13.5 Entire Agreement

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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

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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.

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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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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.

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a) Accompany the combined library with a copy of the same work

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Ty Coon, President of Vice

That's all there is to it!

# This file contains a list of people who've made non-trivial  
# contribution to the Google C++ Testing Framework project. People  
# who commit code to the project are encouraged to add their names  
# here. Please keep the list sorted by first names.

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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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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.

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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.

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.

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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.)

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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If credit has been extended to Licensee by Digia, all payments under this Agreement are due within thirty (30) days of the date Digia mails its invoice to Licensee. If Digia has not extended credit to Licensee, Licensee shall be required to make payment concurrent with the delivery of the Licensed Software by Digia. All amounts payable are gross amounts but exclusive of any value added tax, use tax, sales tax or similar tax. Licensee shall be entitled to withhold from payments any applicable withholding taxes and comply with all applicable tax and employment legislation. Each party shall pay all taxes (including, but not limited to, taxes based upon its income) or levies imposed on it under applicable laws, regulations and tax treaties as a result of this Agreement and any payments made hereunder (including those required to be withheld or deducted from payments). Each party shall furnish evidence of such paid taxes as is sufficient to enable the other party to obtain any credits available to it, including

original withholding tax certificates.

### 13.7 Force Majeure

Neither party shall be liable to the other for any delay or non-performance of its obligations hereunder other than the obligation of paying the license fees in the event and to the extent that such delay or non-performance is due to an event of Force Majeure (as defined below). If any event of Force Majeure results in a delay or non-performance of a party for a period of three (3) months or longer, then either party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other party. A "Force Majeure" event shall mean an act of God, terrorist attack or other catastrophic event of nature that prevents either party from fulfilling its obligations under this Agreement.

### 13.8 Notices

Any notice given by one party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified below. Each communication and document made or delivered by one party to the other party pursuant to this Agreement shall be in the English language or accompanied by a translation thereof.

Notices to Digia shall be given to:

Digia USA, Inc  
2350 Mission College Blvd.  
Suite 1020  
Santa Clara, CA 95054  
U.S.A.  
Fax: + 1 408 433 9360

### 13.9 Export Control

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### 13.10 Governing Law and Legal Venue

This Agreement shall be governed by and construed in accordance with the federal laws of the United States of America and the internal laws of the State of New York without given effect to any choice of law rule that would result in the application of the laws of any other jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods (CISG) shall not apply. Each Party (a) hereby irrevocably submits itself to and consents to the jurisdiction of the United States District Court for the Southern District of New York (or if such court lacks jurisdiction, the state courts of the State of New York) for the purposes of any action, claim, suit or proceeding between the Parties in connection with any controversy, claim, or dispute arising out of or relating to this Agreement; and (b) hereby waives, and agrees not to assert by way of motion, as a defence or otherwise, in any such action, claim, suit or proceeding, any claim that is not personally subject to the jurisdiction of such court(s), that the action, claim, suit or proceeding is brought in an inconvenient forum or that the venue of the action, claim, suit or proceeding is improper. Notwithstanding the foregoing, nothing in this Section 13.10 is intended to, or shall be deemed to, constitute a submission or consent to, or selection of, jurisdiction, forum or venue for any action for patent infringement, whether or not such action relates to this Agreement.



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A "U.S. Government End User" shall mean any agency or entity of the government of the United States. The following shall apply if Licensee is a U.S. Government End User. The Licensed Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire the Licensed Software with only those rights set forth herein. The Licensed Software (including related documentation) is provided to U.S. Government End Users: (a) only as a commercial end item; and (b) only pursuant to this Agreement.

## Appendix 1

### 1. Parts of the Licensed Software that are permitted for distribution ("Redistributables")

- The Licensed Software's main and plug-in libraries in object code form
- The Licensed Software's configuration tool ("qtconfig")
- The Licensed Software's help tool in object code/executable form ("Qt Assistant")
- The Licensed Software's internationalization tools in object code/executable form ("Qt Linguist", "lupdate", "lrelease")
- The Licensed Software's designer tool ("Qt Designer")
- The Licensed Software's IDE tool ("Qt Creator")
- The Licensed Software's QML ("Qt Quick") launcher tool in object code/executable form

### 2. Parts of the Licensed Software that are not permitted for distribution include, but are not limited to

- The Licensed Software's source code and header files
- The Licensed Software's documentation
- The Licensed Software's tool for writing makefiles ("qmake")
- The Licensed Software's Meta Object Compiler ("moc")
- The Licensed Software's User Interface Compiler ("uic" or in the case of Qt Jambi: "juic")
- The Licensed Software's Resource Compiler ("rcc")
- The Licensed Software's generator (only in the case of Qt Jambi if applicable)
- The Licensed Software's Qt SDK

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## EVALUATION LICENSE AGREEMENT

Agreement version 2.0

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"Affiliate" of a Party shall mean an entity (i) which is directly or indirectly controlling such Party; (ii) which is under the same direct or indirect ownership or control as such Party; or (iii) which is directly or indirectly owned or controlled by such Party. For these purposes, an entity shall be treated as being controlled by another if that other entity has fifty percent (50 %) or more of the votes in such entity, is able to direct its affairs and/or to control the composition of its board of directors or equivalent body.

"Term" shall mean the period of time thirty (30) days from the later of (a) the Effective Date; or (b) the date the Licensed Software was initially delivered to Licensee by Digia. If no specific Effective Date is set forth in the Agreement, the Effective Date shall be deemed to be the date the Licensed Software was initially delivered to Licensee.

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#### 4.4 Further Requirements

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interruption of business or for loss or corruption of data. Any award of damages from Digia to Licensee shall not exceed the total amount Licensee has paid to Digia in connection with this Agreement.

## 8. CONFIDENTIALITY

Each party acknowledges that during the Term of this Agreement it shall have access to information about the other party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other party, and the value of which would be significantly reduced if disclosed to third parties (the "Confidential Information"). Accordingly, when a party (the "Receiving Party") receives Confidential Information from another party (the "Disclosing Party"), the Receiving Party shall, and shall obligate its employees and agents and employees and agents of its Affiliates to: (i) maintain the Confidential Information in strict confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each party shall take reasonable measures to protect the Confidential Information of the other party, which measures shall not be less than the measures taken by such party to protect its own confidential and proprietary information.

"Confidential Information" shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 8, this Section 8 shall be controlling over the terms of the Non-Disclosure Agreement.

## 9. GENERAL PROVISIONS

### 9.1 No Assignment

Licensee shall not be entitled to assign or transfer all or any of its rights, benefits and obligations under this Agreement without the prior written consent of Digia, which shall not be unreasonably withheld. For the avoidance of doubt, Digia's right to assign or transfer the Agreement, in whole or in part, shall be unrestricted.

### 9.2 Termination

Digia may terminate the Agreement at any time immediately upon written notice by Digia to Licensee if Licensee breaches this Agreement.

Upon termination of this Agreement, Licensee shall return to Digia all copies of Licensed Software that were supplied by Digia. All other copies of Licensed Software in the possession or control of Licensee must be erased or destroyed. An officer of Licensee must promptly deliver to Digia a written confirmation that this has occurred.

### 9.3 Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive a cancellation or termination of this Agreement shall also be deemed to survive. Such terms and conditions include, but are not limited to the following Sections: 2, 5, 6, 7, 8, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, and 9.8 of this Agreement.

#### 9.4 Entire Agreement

This Agreement constitutes the complete agreement between the parties and supersedes all prior or contemporaneous discussions, representations, and proposals, written or oral, with respect to the subject matters discussed herein, with the exception of the non-disclosure agreement executed by the parties in connection with this Agreement ("Non-Disclosure Agreement"), if any, shall be subject to Section 8. No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each party. No term or condition contained in Licensee's purchase order shall apply unless expressly accepted by Digia in writing. If any provision of the Agreement is found void or unenforceable, the remainder shall remain valid and enforceable according to its terms. If any remedy provided is determined to have failed for its essential purpose, all limitations of liability and exclusions of damages set forth in this Agreement shall remain in effect.

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Notices to Digia shall be given to:

Digia USA, Inc  
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Suite 1020  
Santa Clara, CA 95054  
U.S.A.  
Fax: + 1 408 433 9360

#### 9.6 Export Control

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#### 9.7 Governing Law and Legal Venue

This Agreement shall be governed by and construed in accordance with the federal laws of the United States of America and the internal laws of the State of New York without given effect to any choice of law rule that would result in the application of the laws of any other jurisdiction. The United Nations Convention on Contracts for the International Sale of Goods (CISG) shall not apply. Each Party (a) hereby irrevocably submits itself to and consents to the jurisdiction of the United States District Court for the Southern District of New York (or if such court lacks jurisdiction, the state courts of the State of New York) for the purposes of any action, claim, suit or proceeding between the Parties in connection with any controversy, claim, or dispute arising out of or relating to this Agreement; and (b) hereby waives, and agrees not to assert by way of motion, as a defence or otherwise, in any such action, claim, suit or proceeding, any claim that is not personally subject to the jurisdiction of such court(s), that the action, claim, suit or proceeding is brought in an inconvenient forum or that the venue of the action, claim, suit or proceeding is improper. Notwithstanding the foregoing, nothing in this Section 9.6 is intended to, or shall be deemed to, constitute a submission or consent to, or selection of, jurisdiction, forum or venue for any action for patent infringement, whether or not such action relates to this Agreement.

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# 1.358 dmraid 1.0.0.rc16 28.el7

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Version 2.1, February 1999

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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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```
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```

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```

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<signature of Ty Coon>, 1 April 1989  
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Found in path(s):

```
* /opt/cola/permits/1020462289_1606456152.54/0/opensaml-xmlsec-api-3-4-5-jar/schema/xenc11-schema.xsd
```

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Schema for XML Signatures

```
http://www.w3.org/2000/09/xmldsig#  
$Revision: 1.2 $ on $Date: 2005/06/03 03:09:54 $ by $Author: cantor $
```

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Found in path(s):

```
* /opt/cola/permits/1020462289_1606456152.54/0/opensaml-xmlsec-api-3-4-5-jar/schema/xmldsig-core-schema.xsd
```

# 1.363 reporter-config 2.1.0

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```
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```
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```

```
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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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jar/io/netty/example/spdy/server/package-info.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/example/spdy/server/SpdyServer.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
```

jar/io/netty/channel/epoll/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/spdy/SpdyFrameEncoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/HttpChunkedInput.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/ssl/JdkSslServerContext.java  
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jar/io/netty/handler/codec/spdy/SpdyHeaderBlockDecoder.java  
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jar/io/netty/util/internal/UnsafeAtomicLongFieldUpdater.java  
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jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/http/websocketx/client/WebSocketClient.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java  
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jar/io/netty/example/spdy/client/HttpResponseClientHandler.java  
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jar/io/netty/channel/epoll/EpollChannelOption.java  
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jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java  
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jar/io/netty/buffer/UnsafeDirectSwappedByteBuf.java
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jar/io/netty/util/internal/RecyclableMpscLinkedQueueNode.java
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/nio/SelectedSelectionKeySet.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/FullHttpResponse.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-



jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/util/ResourceLeakException.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/socks/SocksRequestType.java  
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jar/io/netty/util/concurrent/Promise.java  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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jar/io/netty/channel/AddressedEnvelope.java  
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jar/io/netty/handler/codec/spdy/SpdySessionStatus.java  
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jar/io/netty/handler/codec/socks/SocksCmdStatus.java  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/http/helloworld/HttpHelloWorldServerHandler.java  
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jar/io/netty/handler/codec/http/websocketx/WebSocketFrameAggregator.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/util/concurrent/AbstractEventExecutor.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/buffer/ReadOnlyByteBufferBuf.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/Version.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/group/ChannelMatcher.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/buffer/WrappedByteBuf.java  
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jar/io/netty/util/internal/TypeParameterMatcher.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/buffer/DefaultByteBufHolder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/ChannelProgressiveFuture.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java  
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jar/io/netty/channel/sctp/SctpServerChannelConfig.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/channel/sctp/SctpChannel.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/channel/sctp/DefaultSctpChannelConfig.java
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* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/example/worldclock/WorldClockProtocol.proto
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/channel/sctp/nio/NioSctpChannel.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/channel/sctp/SctpNotificationHandler.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
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* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/channel/sctp/SctpMessage.java
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/channel/sctp/SctpServerChannel.java
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- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/WebSocketFrame.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/ByteBufAllocator.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/securechat/SecureChatServer.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/telnet/TelnetServerInitializer.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpContentCompressor.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/CharsetUtil.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/spdy/SpdySession.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/embedded/EmbeddedChannel.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/upload/HttpUploadClient.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/NetUtil.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/serialization/ReferenceMap.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/socks/SocksResponse.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/snoop/HttpSnoopServerHandler.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/bootstrap/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/Unpooled.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/serialization/ClassResolvers.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/factorial/FactorialServerInitializer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/rtsp/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/rtsp/RtspObjectEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/sctp/SctpEchoServerHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/qotm/QuoteOfTheMomentClient.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/udt/echo/message/MsgEchoServer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/compression/DecompressionException.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/Cookie.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpClientCodec.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/localecho/LocalEcho.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/socks/SocksCommonUtils.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/snoop/HttpSnoopClientHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/stream/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/socksproxy/SocksServerConnectHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/echo/EchoClient.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/compression/JZlibEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpRequestEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/RecvByteBufAllocator.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/multipart/CaseIgnoringComparator.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/stream/ChunkedNioFile.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/spdy/DefaultSpdySettingsFrame.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/websocketx/server/WebSocketServerIndexPage.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/echo/EchoServer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/ChannelHandlerContext.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpHeaderDateFormat.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/group/DefaultChannelGroupFuture.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/ChannelMetadata.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/ChannelFuture.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/serialization/ObjectEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/rtsp/RtspResponseStatuses.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpContent.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/timeout/IdleState.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/multipart/MixedAttribute.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/logging/LoggingHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandshakeHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/local/LocalChannelRegistry.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpContentEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakerFactory.java



- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpMethod.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/securechat/SecureChatClientInitializer.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/portunification/PortUnificationServer.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/compression/ZlibWrapper.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/LengthFieldPrepender.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpResponseStatus.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpRequestDecoder.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/Timer.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/timeout/ReadTimeoutException.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/multipart/HttpData.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/DefaultHttpHeaders.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/Attribute.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/UnpooledByteBufAllocator.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/factorial/FactorialServerHandler.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/TimerTask.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/oi/package-info.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/compression/ZlibDecoder.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/local/LocalEventLoop.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/socksproxy/SocksServerUtils.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/file/HttpStaticFileServer.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/bytes/package-info.java
- \* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-

jar/io/netty/example/http/websocketx/server/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/proxy/HexDumpProxyBackendHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/multipart/InternalAttribute.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/sctp/SctpEchoClientHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/util/IllegalReferenceCountException.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker07.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/SucceededChannelFuture.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/factorial/NumberEncoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/HttpContentDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerBase.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/securechat/SecureChatClientHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/DefaultHttpObject.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/Signal.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/Delimiters.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/socket/ServerSocketChannel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/group/CombinedIterator.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/FileRegion.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/spdy/SpdyHttpResponseStreamIdHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/udt/echo/bytes/ByteEchoClient.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/nio/AbstractNioMessageChannel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/oio/AbstractOioChannel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/EncoderException.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpObjectAggregator.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/compression/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker08.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerTwo.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/CodecException.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/ChannelFutureListener.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/udt/echo/message/MsgEchoClientHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/logging/InternalLogLevel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/objectecho/ObjectEchoServer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/DefaultHttpMessage.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/local/LocalChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/spdy/SpdyHttpHeaders.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/ReplayingDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/PoolArena.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/PooledByteBuf.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/rtsp/RtspRequestEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/ChannelPromiseNotifier.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/CookieDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/local/LocalEventLoopGroup.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/UnpooledDirectByteBuf.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/nio/AbstractNioChannel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/MultithreadEventLoopGroup.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/ChannelPromise.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpHeaders.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/PoolThreadCache.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/timeout/TimeoutException.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/snoop/HttpSnoopClientInitializer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/concurrent/BlockingOperationException.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/multipart/AbstractDiskHttpData.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker00.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/upload/HttpUploadServerInitializer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/Timeout.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/nio/NioEventLoop.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/ByteToMessageCodec.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/multipart/InterfaceHttpData.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/serialization/ClassResolver.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/nio/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/logging/JdkLoggerFactory.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-

jar/io/netty/handler/codec/http/HttpMessage.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/CorruptedFrameException.java  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/HttpConstants.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/base64/Base64Encoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/rtsp/RtspHeaders.java  
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jar/io/netty/example/factorial/FactorialServer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/rtsp/RtspRequestDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/http/websocketx/server/WebSocketServer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/sctp/oio/OioSctpChannel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/logging/LogLevel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/DefaultChannelPromise.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/buffer/ByteBufUtil.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/FailedChannelFuture.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/socket/DatagramPacket.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/rtsp/RtspResponseEncoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/stream/ChunkedFile.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/proxy/HexDumpProxyFrontendHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-

jar/io/netty/bootstrap/Bootstrap.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/timeout/ReadTimeoutHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/base64/Base64Decoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/group/ChannelGroupFuture.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/oio/AbstractOioByteChannel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/AbstractChannelHandlerContext.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/ssl/NotSslRecordException.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/buffer/PooledByteBufAllocator.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/socks/UnknownSocksResponse.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/serialization/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/buffer/PoolChunk.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/ssl/package-  
info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/bootstrap/ServerBootstrap.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/AbstractChannel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/serialization/CachingClassResolver.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/compression/JZlibDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/timeout/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/ssl/SslHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/websocketx/WebSocketVersion.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/telnet/TelnetClient.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-

jar/io/netty/buffer/PooledDirectByteBuf.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/objectecho/ObjectEchoServerHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/proxy/HexDumpProxyInitializer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/socks/SocksMessage.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/socket/ServerSocketChannelConfig.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/ChannelDuplexHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/multipart/HttpPostBodyUtil.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/socks/SocksRequest.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/udt/echo/message/MsgEchoServerHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/socks/SocksInitRequest.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/udt/echo/rendezvous/Config.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/telnet/TelnetServer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/udt/echo/bytes/package-info.java  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/DecoderException.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/qotm/QuoteOfTheMomentClientHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/udt/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/socket/InternetProtocolFamily.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/compression/ZlibUtil.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/HttpVersion.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-

jar/io/netty/handler/codec/http/HttpResponseEncoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/DecoderResult.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/compression/ZlibEncoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/echo/EchoClientHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/CompleteChannelFuture.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/http/cors/HttpCorsServer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/sctp/oio/OioSctpServerChannel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/socksproxy/RelayHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/nio/NioTask.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/spdy/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/udt/echo/message/MsgEchoClient.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/worldclock/WorldClockClientHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/telnet/TelnetClientInitializer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/qotm/QuoteOfTheMomentServerHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/discard/DiscardServer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/stream/ChunkedWriteHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/websocketx/BinaryWebSocketFrame.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/worldclock/WorldClockClientInitializer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/file/FileServer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/securechat/SecureChatServerHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/rtsp/RtspObjectDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-



jar/io/netty/channel/socket/nio/NioDatagramChannel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/objectecho/ObjectEchoClient.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/HttpObjectDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/ChannelException.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/marshalling/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/ChannelOutboundHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/MessageToMessageCodec.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/proxy/HexDumpProxy.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/buffer/UnpooledHeapByteBuf.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/Channel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/multipart/HttpPostRequestEncoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/ChannelConfig.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/nio/NioEventLoopGroup.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/EventLoop.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/qotm/QuoteOfTheMomentServer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/discard/DiscardClientHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/http/upload/HttpUploadServer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/string/StringEncoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/multipart/MixedFileUpload.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-

jar/io/netty/example/factorial/FactorialClientInitializer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerBase.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/DefaultHttpResponse.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/embedded/EmbeddedSocketAddress.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/EventLoopGroup.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/util/DefaultAttributeMap.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/http/snoop/HttpSnoopServer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/socket/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/udt/UdtChannelConfig.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/compression/CompressionException.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/LastHttpContent.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/localecho/LocalEchoClientHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/MessageToByteEncoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/package-  
info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/udt/echo/rendezvous/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/socks/SocksInitResponse.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/ServerChannel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/nio/AbstractNioByteChannel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/websocketx/WebSocketHandshakeException.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/ChannelOption.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/multipart/HttpDataFactory.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/ssl/util/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/sctp/nio/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-

jar/io/netty/channel/oio/AbstractOioMessageChannel.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/embedded/EmbeddedEventLoop.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/ChannelPipeline.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/util/internal/logging/CommonsLoggerFactory.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/util/concurrent/EventExecutor.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/factorial/BigIntegerDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/sctp/SctpEchoServer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/QueryStringEncoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/embedded/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/telnet/TelnetClientHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/util/UniqueName.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/http/upload/HttpUploadClientInitializer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/worldclock/WorldClockServerInitializer.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/socket/SocketChannelConfig.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/package-  
info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/ChannelInboundHandlerAdapter.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/util/internal/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/multipart/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker08.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/http/upload/HttpUploadServerHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/multipart/FileUpload.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/timeout/WriteTimeoutHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-

jar/io/netty/example/objectecho/ObjectEchoClientHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/discard/DiscardServerHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/HttpContentDecompressor.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/socks/SocksAuthResponse.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/telnet/TelnetServerHandler.java  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/EventLoopException.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/MessageToMessageEncoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/DefaultChannelPipeline.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/http/file/HttpStaticFileServerInitializer.java  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/buffer/ReadOnlyByteBuf.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/buffer/SlicedByteBuf.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/ChannelFlushPromiseNotifier.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/ByteBuf.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/http/upload/HttpUploadClientHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/example/worldclock/WorldClockServerHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/socket/DefaultSocketChannelConfig.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/channel/FixedRecvByteBufAllocator.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/socket/DatagramChannelConfig.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/stream/ChunkedNioStream.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/ChannelPromiseAggregator.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/bootstrap/AbstractBootstrap.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/ChannelInboundHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/sctp/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/DefaultUdtChannelConfig.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/timeout/IdleStateEvent.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/QueryStringDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/AttributeKey.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/multipart/AbstractHttpData.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/sctp/SctpEchoClient.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/multipart/HttpPostRequestDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/stream/ChunkedInput.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/PoolChunkList.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/multipart/DiskAttribute.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/PrematureChannelClosureException.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/socks/SocksCmdRequest.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/udt/echo/bytes/ByteEchoServerHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/TextWebSocketFrame.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpServerCodec.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/oio/OioEventLoopGroup.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/localecho/LocalEchoServerHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/AbstractByteBufAllocator.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/multipart/DefaultHttpDataFactory.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/concurrent/SingleThreadEventExecutor.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/ServerCookieEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/uptime/UptimeClientHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/SwappedByteBuf.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/udt/echo/bytes/ByteEchoClientHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/DefaultHttpRequest.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/concurrent/FailedFuture.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/StringUtil.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/multipart/AbstractMemoryHttpData.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/PoolSubpage.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/SingleThreadEventLoop.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/udt/echo/rendezvousBytes/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpObject.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/socket/oio/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/local/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/TooLongFrameException.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpResponseDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/socket/oio/OioDatagramChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/socks/SocksCmdResponse.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/sctp/oio/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/rtsp/RtspResponseDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/sctp/SctpOutboundByteStreamHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/socket/nio/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/socksproxy/DirectClientHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/UdtMessage.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/ByteBufInputStream.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/socksproxy/SocksServerHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker13.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/stream/ChunkedStream.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/LineBasedFrameDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/udt/echo/bytes/ByteEchoServer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/CompositeByteBuf.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/logging/Slf4JLogger.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/MessageToMessageDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpRequest.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/rtsp/RtspVersions.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/SystemPropertyUtil.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/websocketx/server/WebSocketServerInitializer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/AbstractServerChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/websocketx/server/WebSocketServerHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/ReplayingDecoderBuffer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/portunification/PortUnificationServerHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/echo/EchoServerHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/DefaultFileRegion.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/CookieEncoderUtil.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpObjectEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/socket/DatagramChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/uptime/UptimeClient.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/rtsp/RtspMethods.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/helloworld/HttpHelloWorldServer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/factorial/FactorialClient.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/concurrent/SucceededFuture.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/logging/InternalLoggerFactory.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/udt/echo/rendezvousBytes/ByteEchoPeerHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/HttpResponse.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/securechat/SecureChatClient.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/DuplicatedByteBuf.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/AttributeMap.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/ThreadPerChannelEventLoop.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/multipart/MemoryAttribute.java



\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/concurrent/GlobalEventExecutor.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/compression/Snappy.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/DefaultChannelConfig.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/logging/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/cors/HttpCorsServerInitializer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/socksproxy/SocksServer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/socks/SocksAuthRequest.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/socksproxy/SocksServerInitializer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/local/LocalServerChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/worldclock/WorldClockClient.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/worldclock/WorldClockServer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/concurrent/EventExecutorGroup.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/AbstractByteBuf.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/nio/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/snoop/HttpSnoopServerInitializer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/DefaultLastHttpContent.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerTwo.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/string/StringDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/ClientCookieEncoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/timeout/WriteTimeoutException.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/udt/echo/rendezvous/MsgEchoPeerOne.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/ChannelInitializer.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/VoidChannelPromise.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/socks/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/factorial/FactorialClientHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/local/LocalAddress.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/DefaultHttpContent.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/concurrent/DefaultEventExecutor.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/base64/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/protobuf/package-info.java

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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/timeout/IdleStateHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/PingWebSocketFrame.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/CombinedChannelDuplexHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/socket/nio/NioSocketChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/file/HttpStaticFileServerHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/group/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/ChannelPipelineException.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/CookieHeaderNames.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshaker.java  
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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/http/snoop/HttpSnoopClient.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/package-info.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/example/discard/DiscardClient.java  
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\* Enumeration of supported Base64 dialects.

\* <p>

\* The internal lookup tables in this class has been derived from

\* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain

\* Base64 Encoder/Decoder</a>.

\*/

Found in path(s):

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/base64/Base64Dialect.java

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Found in path(s):

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/logging/MessageFormatter.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/logging/FormattingTuple.java

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/\*\*

\* Handles or intercepts a { @link ChannelInboundInvoker } or { @link ChannelOutboundInvoker } operation, and forwards it

\* to the next handler in a { @link ChannelPipeline }.

\*

\* <h3>Sub-types</h3>

\* <p>

\* { @link ChannelHandler } itself does not provide many methods. To handle a

\* a { @link ChannelInboundInvoker } or { @link ChannelOutboundInvoker } operation

\* you need to implement its sub-interfaces. There are many different sub-interfaces

\* which handles inbound and outbound operations.

\*

\* But the most useful for developers may be:

\* <ul>

\* <li>{ @link ChannelInboundHandlerAdapter } handles and intercepts inbound operations</li>

\* <li>{ @link ChannelOutboundHandlerAdapter } handles and intercepts outbound operations</li>

\* </ul>

\*

\* You will also find more detailed explanation from the documentation of

\* each sub-interface on how an event is interpreted when it goes upstream and

\* downstream respectively.

\*

\* <h3>The context object</h3>

\* <p>

\* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }

\* object. A { @link ChannelHandler } is supposed to interact with the

\* {@link ChannelPipeline} it belongs to via a context object. Using the  
 \* context object, the {@link ChannelHandler} can pass events upstream or  
 \* downstream, modify the pipeline dynamically, or store the information  
 \* (using {@link AttributeKey}s) which is specific to the handler.

\*

### \* <h3>State management</h3>

\*

\* A {@link ChannelHandler} often needs to store some stateful information.

\* The simplest and recommended approach is to use member variables:

\* <pre>

```
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Channel} ch = e.getChannel();
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else if (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ch.write(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
```

\* </pre>

\* Because the handler instance has a state variable which is dedicated to

\* one connection, you have to create a new handler instance for each new

\* channel to avoid a race condition where a unauthenticated client can get

\* the confidential information:

\* <pre>

```
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
```

\*

```

*
* </pre>
*
* <h4>Using { @link AttributeKey}</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use { @link AttributeKey}s which is provided by
* { @link ChannelHandlerContext}:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* { @code @Sharable}
* public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final { @link AttributeKey}&lt;{ @link Boolean}&gt; auth =
*         { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     { @code @Override}
*     public void channelRead({ @link ChannelHandlerContext} ctx, Message message) {
*         { @link Attribute}&lt;{ @link Boolean}&gt; attr = ctx.attr(auth);
*         { @link Channel} ch = ctx.channel();
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ch.write(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
* }
* ...
* }
* </pre>
* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;{ @link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     { @code @Override}
*     public void initChannel({ @link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }

```

```

* }
* </pre>
*
*
* <h4>The { @code @Sharable } annotation</h4>
* <p>
* In the example above which used an { @link AttributeKey },
* you might have noticed the { @code @Sharable } annotation.
* <p>
* If a { @link ChannelHandler } is annotated with the { @code @Sharable }
* annotation, it means you can create an instance of the handler just once and
* add it to one or more { @link ChannelPipeline }s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the { @link ChannelHandler }, and
* { @link ChannelPipeline } to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a pipeline, and how to handle
* the operation in your application.
*/

```

Found in path(s):

```

* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/channel/ChannelHandler.java

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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java

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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/rxtx/RxtxChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/UdtServerChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/oio/OioByteStreamChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/rxtx/DefaultRxtxChannelConfig.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/rxtx/package-info.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/sctp/SctpChannelOption.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/rxtx/RxtxDeviceAddress.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/rxtx/RxtxChannelOption.java

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jar/io/netty/util/internal/ThreadLocalRandom.java
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jar/io/netty/util/internal/logging/JdkLogger.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/util/internal/logging/InternalLogger.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/util/internal/logging/Log4JLogger.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-  
jar/io/netty/util/internal/logging/CommonsLogger.java

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jar/io/netty/buffer/PooledHeapByteBuf.java

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jar/io/netty/example/http/websocketx/client/WebSocketClientHandler.java  
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jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java  
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jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameEncoder.java  
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\* Adaptation of <http://bjoern.hoehrmann.de/utf-8/decoder/dfa/>

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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java

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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/sctp/package-info.java

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\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/nio/NioUdtMessageAcceptorChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/UdtChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/nio/NioUdtProvider.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/nio/NioUdtMessageRendezvousChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/nio/NioUdtByteAcceptorChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/nio/NioUdtByteConnectorChannel.java

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/sctp/SctpInboundByteStreamHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/codec/sctp/SctpMessageCompletionHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/channel/udt/nio/NioUdtAcceptorChannel.java

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Found in path(s):

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/handler/traffic/TrafficCounter.java

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/\*\*

\* A decoder that splits the received {@link ByteBuf}s dynamically by the  
\* value of the length field in the message. It is particularly useful when you  
\* decode a binary message which has an integer header field that represents the  
\* length of the message body or the whole message.



\* <p>  
 \* { @link LengthFieldBasedFrameDecoder } has many configuration parameters so  
 \* that it can decode any message with a length field, which is often seen in  
 \* proprietary client-server protocols. Here are some example that will give  
 \* you the basic idea on which option does what.

\* <h3>2 bytes length field at offset 0, do not strip header</h3>

\* The value of the length field in this example is <tt>12 (0x0C)</tt> which  
 \* represents the length of "HELLO, WORLD". By default, the decoder assumes  
 \* that the length field represents the number of the bytes that follows the  
 \* length field. Therefore, it can be decoded with the simplistic parameter  
 \* combination.

```
* <pre>
* <b>lengthFieldOffset</b> = <b>0</b>
* <b>lengthFieldLength</b> = <b>2</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
```

```
* BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |    | 0x000C | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
```

\* <h3>2 bytes length field at offset 0, strip header</h3>

\* Because we can get the length of the content by calling  
 \* { @link ByteBuf#readableBytes() }, you might want to strip the length  
 \* field by specifying <tt>initialBytesToStrip</tt>. In this example, we  
 \* specified <tt>2</tt>, that is same with the length of the length field, to  
 \* strip the first two bytes.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
```

```
* BEFORE DECODE (14 bytes)    AFTER DECODE (12 bytes)
* +-----+-----+ +-----+-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" |    | "HELLO, WORLD" |
* +-----+-----+ +-----+-----+
```

\* <h3>2 bytes length field at offset 0, do not strip header, the length field  
 \* represents the length of the whole message</h3>

\*  
 \* In most cases, the length field represents the length of the message body  
 \* only, as shown in the previous examples. However, in some protocols, the  
 \* length field represents the length of the whole message, including the  
 \* message header. In such a case, we specify a non-zero  
 \* `<tt>lengthAdjustment</tt>`. Because the length value in this example message  
 \* is always greater than the body length by `<tt>2</tt>`, we specify `<tt>-2</tt>`  
 \* as `<tt>lengthAdjustment</tt>` for compensation.

```
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
```

```
* BEFORE DECODE (14 bytes)      AFTER DECODE (14 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Actual Content |---->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |    | 0x000E | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
```

```
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
```

\* The following message is a simple variation of the first example. An extra  
 \* header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero  
 \* again because the decoder always takes the length of the prepended data into  
 \* account during frame length calculation.

```
* <pre>
* <b>lengthFieldOffset</b> = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b> = <b>3</b>
* lengthAdjustment = 0
* initialBytesToStrip = 0
```

```
* BEFORE DECODE (17 bytes)      AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |    | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
```

```
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
```

\* This is an advanced example that shows the case where there is an extra  
 \* header between the length field and the message body. You have to specify a  
 \* positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra  
 \* header into the frame length calculation.

```
* <pre>
* lengthFieldOffset = 0
```

```

* lengthFieldLength = 3
* <b>lengthAdjustment</b> = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)          AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |----->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

\* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,  
 \* strip the first header field and the length field</h3>

\* This is a combination of all the examples above. There are the prepended  
 \* header before the length field and the extra header after the length field.  
 \* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra  
 \* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero  
 \* <tt>initialBytesToStrip</tt> to strip the length field and the prepended  
 \* header from the frame. If you don't want to strip the prepended header, you  
 \* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.

```

* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>

```

\* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,  
 \* strip the first header field and the length field, the length field  
 \* represents the length of the whole message</h3>

\* Let's give another twist to the previous example. The only difference from  
 \* the previous example is that the length field represents the length of the  
 \* whole message instead of the message body, just like the third example.  
 \* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.  
 \* Please note that we don't need to take the length of HDR2 into account  
 \* because the length field already includes the whole header length.

```

* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)

```

```

* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)          AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |    | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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 */
/*
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 */
/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * Base64 notation.
 *
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
 * Robert Harder's Public Domain
 \* Base64 Encoder/Decoder.
 *
 */

```

Found in path(s):

```

* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
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 */
// Try the OpenJDK's proprietary implementation.
```

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* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
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 */
```

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```
* /opt/cola/permits/1128912132_1612119294.85/0/netty-all-4-0-23-final-sources-2-
jar/io/netty/util/internal/chmv8/ConcurrentHashMapV8.java
```

\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/chmv8/ForkJoinTask.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/chmv8/ForkJoinWorkerThread.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/chmv8/CountedCompleter.java  
\* /opt/cola/permits/1128912132\_1612119294.85/0/netty-all-4-0-23-final-sources-2-jar/io/netty/util/internal/chmv8/ForkJoinPool.java

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## 1.367 cryptacular 1.2.4

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## 1.368 httpclient---http-accessing-library 2.7.2

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## Changes

### Changes in 2.7.2

Apr 22, 2016 - version 2.7.2

\* Changes

\* Use RSA 1024bit CA cert when linked to old openssl

Based on comments to #297 this commit silently (without warning) accepts  
RSA 1024bit certificate set when runtime ruby is linked with old OpenSSL  
(<1.0.1p or <1.0.2d.)

If you're unsure that your OpenSSL is patched or not, and want to make  
sure to use RSA 2048bit certificate set, please call  
HTTPClient::SSLConfig#add\_trust\_ca("cacert.pem").

```
```ruby
c = HTTPClient.new { |c| c.ssl_config.add_trust_ca("cacert.pem") }
c.get("https://www.ruby-lang.org/")
```
```

I'm going to remove RSA 1024bit certificate set and bump httpclient  
version to 2.8.0 soon after I release this as 2.7.2. I believe almost  
all OpenSSL installation is patched quickly these days so it should not  
cause SSL connectivity problem.

### ### Changes in 2.7.1

Jan 1, 2016 - version 2.7.1

#### \* Changes

##### \* Symbol aware header key comparison

Normalizes symbol to String for header key.  
<https://github.com/naht/httpclient/issues/278>

##### \* Show warning message only once

Added HTTPClient::Util.warning that cached warning message and suppress the message if it's already dumped.

##### \* Use Timeout.timeout instead of Kernel.timeout that is deprecated from ruby 2.3.0.

#### \* Bug fixes

##### \* [JRuby] Set ssl\_version properly

### ### Changes in 2.7.0

Nov 5, 2015 - version 2.7.0

#### \* Changes

##### \* Update trusted CA certificates

Issue #230 blocked updating trusted CA certificates to 2048 bit version long time. But from OpenSSL 1.0.1m and 1.0.2a it changes their custom chain building algorithm to find shortcut path when it fails to validate the path SSL server returns so that we can migrate trusted CA certificates to 2048bit version atop OpenSSL.

Unfortunately the new algorithm has CVE-2015-1793 problem so we can use this new algorithm actually from OpenSSL >= 1.0.1p or >= 1.0.2d. (Jul 2015)

After this commit HTTPClient leverages 2048 bit version of trusted CA certificates if ruby is compiled with proper version of OpenSSL.

```
```ruby
ver = OpenSSL::OPENSSL_VERSION
if (ver.start_with?('OpenSSL 1.0.1') && ver >= 'OpenSSL 1.0.1p') ||
  (ver.start_with?('OpenSSL ') && ver >= 'OpenSSL 1.0.2d')
```

```
filename = 'cacert.pem'
else
  filename = 'cacert1024.pem'
end
...

```

\* New SSLSocket implementation for JRuby

Full rewrite of SSL implementation for JRuby with java.net.ssl.\*.  
HTTPClient no longer relies on SSL implementation in jruby-openssl.  
Now it supports revocation check.

On JRuby, instead of setting CRL by yourself you can set following options to let HTTPClient to perform revocation check with CRL and OCSP:

```
...
-J-Dcom.sun.security.enableCRLDP=true -J-Dcom.sun.net.ssl.checkRevocation=true
ex. % jruby -J-Dcom.sun.security.enableCRLDP=true -J-Dcom.sun.net.ssl.checkRevocation=true app.rb
...

```

\* HTTPClient.new accepts initialization block

```
```ruby
HTTPClient.new { |c| c.debug_dev = STDERR }.get(...)
...

```

\* Add 'version' command to httpclient CLI

```
...
% httpclient version
2.7.0
...

```

\* Add patch() and patch\_async() methods to support HTTP PATCH

\* Bug fixes

\* Support no header deflate compression

Some server returns deflate content without zlib header. Try to detect it and fallback to plain deflate algorithm for transparent\_gzip\_decompression. Fixes #244.

### Changes in 2.6.0

Jan 3, 2015 - version 2.6.0

This release includes internal CookieManager implementation change. It involves compatibility layer but for the case your library depends on internal implementation it also provides a way to restore the implementation. See below for more details.

\* Changes

\* feat: use http-cookie if available for better Cookies spec compliance.

Instead of WebAgent 0.6.2 that is not maintained over 10 years. To omit maintaining that library use http-cookie for better spec compliance and healthy development.

This introduces following incompatibility from existing cookies implementation.

\* Expired cookies are not saved. With the old implementation expired cookies are saved in file and not be sent to the server. With the new implementation the expired cookies are not saved to the file and not be sent to the server.

\* Cookie#domain returns dot-less domain for domain cookies. Instead, Cookie#dot\_domain returns with dot.

http-cookie is used by default if available but you can restore original CookieManager behavior by loading 'httpclient/webagent-cookie' feature before 'httpclient' like this;

```
```ruby
require 'httpclient/webagent-cookie'
require 'httpclient'
```
```

The new implementation dumps warnings to help you migrate to http-cookie. Please follow the suggestion to avoid future compatibility.

```
```ruby
```

e.g.

WebAgent::Cookie is deprecated and will be replaced with HTTP::Cookie in the near future. Please use Cookie#origin= instead of Cookie#url= for the replacement.

Cookie#domain returns dot-less domain name now. Use Cookie#dot\_domain if you need "." at the beginning.

CookieManager#find is deprecated and will be removed in near future. Use HTTP::Cookie.cookie\_value(CookieManager#cookies) instead

```
```
```

\* feat: Message#previous to get responses in negotiation

HTTP::Message#previous keeps previous response in negotiation. For redirection, authorization negotiation and retry from custom filter.



Closes #234.

\* feat: Add JSONClient

JSONClient auto-converts Hash <-> JSON in request and response.

\* For POST or PUT request, convert Hash body to JSON String with 'application/json; charset=utf-8' header.

\* For response, convert JSON String to Hash when content-type is '(application|text)/(x-)?json'

This commit include bin/jsonclient that works as same as bin/httpclient not with HTTPClient but with JSONClient.

\* feat: Add download command

...

% httpclient download http://host/path > file

...

\* Bug fixes

\* fix: duplicated query params by follow\_redirect

When the original request has query and the server returns redirection response with Location, HTTPClient wrongly adds query to the new URI. In such case the Location header could include query part;

...

e.g.

http://originalhost/api/call?limit=10

-> Location: http://otherhost/api/call?limit=10

...

HTTPClient should just hit the new location '/api/call?limit=10' not '/api/call?limit=10&limit=10'. Closes #236.

\* fix: NTLM & Basic dual auth

When a server returns two or more WWW-Authenticate headers and the first one is NTLM, say WWW-Authenticate: NTLM and WWW-Authenticate: Basic in this order, HTTPClient sent Basic Authorization header after finishing NTLM auth negotiation.

NTLM auth is a connection authentication scheme so HTTPClient deleted the internal auth negotiation state so that NTLM authenticator does not do anything after the negotiation has completed. In such case, for the subsequent requests, NTLM authenticator does nothing but Basic authenticator sends Basic Authorization header to the server that is

already negotiated via NTLM authenticator. This can cause authentication failure.

This commit changes the internal state handling not to delete the state but introduce :done state. NTLM authenticator returns :skip for the request to the server that auth negotiation has completed. WWWAuth skips other authenticator to avoid above issue. Closes #157.

\* fix: transplant IO positions to new request in negotiation

In authorization negotiation HTTP::Message for request is generated for each request, of course, but HTTPClient did not care the IO position recorded in the previous requests in the subsequent requests. Closes #130.

\* fix: avoid inconsistent Content-Length and actual body

If lengths of all posted arguments are known HTTPClient sends 'Content-Length' as a sum length of all arguments. But the length of actual body was wrong because it read as much as possible regardless of what IO#size returned. So if the file is getting bigger while HTTPClient is processing a request the request has inconsistent Content-Length and body.

This bug is found, and the fix is proposed both by @Teshootub7. Thank you very much for patient trouble shooting! Fixes #117.

\* fix: KeepAliveDisconnected race condition

As details explained in #84, current HTTPClient's KeepAliveDisconnected handling has a race condition bug that allows a client to have invalidated connection two or more times. This could be a cause of #185.

To avoid this, make HTTPClient acquire new connection for retry of KeepAliveDisconnected. Closes #84. Closes #185.

### ### Changes in 2.5.3

This release includes behavior changes of POST and PUT requests that has nil as a body. See changes below. Empty String as a body is not affected.

\* Changes

\* Update cacert. "Certificate data from Mozilla as of: Tue Oct 28 22:03:58 2014"  
-> Reverted in 2.5.3.3 because it caused unexpected SSLError. See <https://github.com/nahe/httpclient/issues/230>

\* Allow no content POST and PUT.

Previously POST or PUT with :body => nil meant that 'POST or PUT with 0

length entity body'. But sometimes you need to POST or PUT actually no content which should not have Content-Type nor Content-Length. It could be incompatible change for user who POST/PUT-ed with empty body but it should be rare, actually WEBrick cannot handle such 'no content' POST and PUT. #128.

\* Add `default_header` property.

`:default_header` is for providing default headers Hash that all HTTP requests should have, such as custom 'Authorization' header in API. You can override `:default_header` with `:header` Hash parameter in HTTP request methods.

\* raise if redirect res does not have Location header. #155.

\* Bug fixes

\* Avoid NPE by a cookie without domain=.

The root cause is still uncertain though. Closes #123

\* Suppress `verify_callback` warning.

Because OpenSSL can try multiple certificate chains and some of it can fail, and one of them succeeds. For that case warning is irrelevant.

Let it warn only in \$DEBUG mode. #221.

### Changes in 2.5.2

Oct 29, 2014 - version 2.5.2

\* Changes

\* Add `:force_basic_auth` config - #166, #179, #181.

Generally HTTP client must send Authorization header after it gets 401 error from server from security reason. But in some situation (e.g. API client) you might want to send Authorization from the beginning. You can turn on/off `force_basic_auth` flag for sending Authorization header from the beginning. (Of course, if a request URI matches with the URI you set in `set_auth` method)

Syntax:

```
```ruby
  HTTPClient.new(:force_basic_auth => true)
  # or
  c = HTTPClient.new
  c.force_basic_auth = true
```
```

\* Add `:base_url` to HTTPClient configuration.

Passing path to `get`, `post`, etc. is recognized as a request to `:base_url + uri`. If you pass full URL `:base_url` is ignored.

```
```ruby
  api = HTTPClient.new(:base_url => 'https://api.example.com/v1')
  api.get("/users.json") # => Get https://api.example.com/v1/users.json
  api.get("https://localhost/path") # => https://localhost/path
```
```

### ### Changes in 2.5.1

Oct 19, 2014 - version 2.5.1

#### \* Changes

- \* Allow to specify :query in POST, PUT, DELETE and OPTIONS requests. Closes #83.
- \* Allow to specify :body in OPTIONS request. Closes #136.

### ### Changes in 2.5.0

Oct 17, 2014 - version 2.5.0

#### \*\*IMPORTANT CHANGES\*\*

This version changes (again) default SSL options to help BEAST/CRIME/POODLE Attack prevention.

- \* Disabled SSLv3 in favor of POODLE Attack prevention.
- \* Enabled 1/n-1 fragment in favor of BEAST Attack prevention.
- \* No TLS compression in favor of CRIME Attack prevention.

You can restore the previous SSL configuration like this;

```
```ruby
client = HTTPClient.new
client.ssl_config.ssl_version = :SSLv23
client.ssl_config.options = OpenSSL::SSL::OP_ALL | OpenSSL::SSL::OP_NO_SSLv2
```
```

#### \* Changes

- \* Change default SSL options. See above.
- \* Keep cause error of KeepAliveDisconnected. It allows caller to investigate the cause of KeepAliveDisconnected.

### ### Changes in 2.4.0

Jun 8, 2014 - version 2.4.0

**\*\*IMPORTANT CHANGES\*\***

This version changes default SSL version to :auto (same as nil) to use SSL/TLS version negotiation. Former versions use SSLv3 as default that does not connect via TLS. This change makes underlying OpenSSL library decide which SSL/TLS version to use but SSLv2 is disabled.

This change makes your secure connection safer but if you see SSL connection failure with this version try specifying SSL version to use SSLv3 like;

...

```
client = HTTPClient.new
client.ssl_config.ssl_version = :SSLv3
```

...

**\* Bug fixes**

- \* Avoid unnecessary connection retries for OAuth error.

[#203](https://github.com/naheer/HTTPClient/issues/203)

- \* Make authentication drivers Thread-safe. Note that HTTPClient instance is Thread-safe for authentication state update but it shares authentication state across threads by design. If you don't want to share authentication state, such as for using different authentication username/password pair per thread, create HTTPClient instance for each Thread.

[#200](https://github.com/naheer/HTTPClient/issues/200)

- \* Avoid chunked String recycle in callback block.

[#193](https://github.com/naheer/HTTPClient/issues/193)

- \* Do not send empty 'oauth\_token' in signed request for compatibility.

[#188](https://github.com/naheer/HTTPClient/issues/188)

- \* Ignore negative Content-Length header from server.

[#175](https://github.com/naheer/HTTPClient/issues/175)

- \* Fix incorrect use of absolute URL for HTTPS proxy requests.

[#168](https://github.com/naheer/HTTPClient/issues/168)

- \* Handle UTF characters in chunked bodies.

[#167](https://github.com/naheer/HTTPClient/issues/167)

- \* A new cookie never be accepted if an HTTPClient has the same expired cookie.

[#154](https://github.com/naheer/HTTPClient/issues/154)

- \* Allow spaces in NO\_PROXY environment like; "hosta, hostb"

[#141](https://github.com/naheer/HTTPClient/issues/141)

- \* Avoid HttpClient::Message::Body#dump causes Encoding::CompatibilityError.

[#140](https://github.com/naheer/HTTPClient/issues/140)

**\* Changes**

- \* Change default SSL version to :auto to use version negotiation.

[#186](https://github.com/naheer/HTTPClient/issues/186),

[#204](https://github.com/naheer/HTTPClient/issues/204)

- \* Allow to pass client private key passphrase in SSLConfig.

[#201](https://github.com/naheer/HTTPClient/issues/201)

- \* Convert README to markdown syntax

[#198](https://github.com/nahi/httpclient/issues/198)

\* Update default CA certificates: change the source from JDK's to Firefox's.

The file is downloaded from

<https://raw.githubusercontent.com/bagder/ca-bundle/master/ca-bundle.crt>

(Certificate data from Mozilla as of: Tue Apr 22 08:29:31 2014)

[#195](https://github.com/nahi/httpclient/issues/195)

\* Callback block can be defined as to get 2 arguments to retrieve the response object.

[#194](https://github.com/nahi/httpclient/issues/194)

\* Remove [] from given address for IPv6 compat.

[#176](https://github.com/nahi/httpclient/issues/176)

\* Update API endpoints to those of Twitter REST API v1.1.

[#150](https://github.com/nahi/httpclient/issues/150)

### ### Changes in 2.3.4

July 27, 2013 - version 2.3.4

\* Bug fixes

\* Make sure to read socket in BINARY buffer.

[#171](https://github.com/nahi/httpclient/issues/171)

### ### Changes in 2.3.3

February 24, 2013 - version 2.3.3

\* Changes

\* Add User-Agent field by default. You can remove the header by setting nil to HTTPClient#agent\_name.

[#144](https://github.com/nahi/httpclient/issues/144)

### ### Changes in 2.3.2

January 5, 2013 - version 2.3.2

...

\* Changes

\* #138 Revert Timeout change unintentionally included in v2.3.1. It's reported that the change causes background processes not terminated properly.

...

### ### Changes in 2.3.1

January 1, 2013 - version 2.3.1

...

\* Changes

\* #137 Signing key is expiring for cacert\_sha1.p7s.

Deleted p7s signature check for default cacerts. Sorry for many troubles in the past. This feature is not useful without having online/real-time CA certs update but I don't think I can implement it in near future. Users depend on this signature check (who puts cacert.p7s in R/W filesystem and ssl\_config.rb in R/O filesystem) should take care the tampering by themselves.

\* Bug fixes

\* #122 Support IPv6 address in URI

...

### Changes in 2.3.0

October 10, 2012 - version 2.3.0

...

\* Features

\* Added debug mode CLI. bin/httpclient is installed as CLI.

Usage: 1) % httpclient get https://www.google.co.jp/ q=ruby

Usage: 2) %httpclient

For 1) it issues a GET request to the given URI and shows the wire dump and the parsed result. For 2) it invokes irb shell with the binding that has a HTTPClient as 'self'. You can call HTTPClient instance methods like;

> get "https://www.google.co.jp/", :q => :ruby

\* #119 Addressable gem support (only if it exists); should handle IRI properly.

\* Bug fixes

\* #115 Cookies couldn't work properly if the path in an URI is omitted.

\* #112, #117 Proper handling of sized IO (the IO object that responds to :size) for chunked POST. HTTPClient did read till EOF even if the given IO has :size method.

\* Handle '303 See Other' properly. RFC2616 says it should be redirected with GET.

\* #116 Fix "100-continue" support. It was just ignored.

\* #118 Support for boolean values when making POST/PUT requests with multipart/form Content-Type.

\* #110 Allows leading dots in no\_proxy hostname suffixes.

...

### ### Changes in 2.2.7

August 14, 2012 - version 2.2.7

...

\* Bug fixes

\* Fix arity incompatibility introduced in 2.2.6. It broke Webmock.

Thanks Andrew France for the report!

...

### ### Changes in 2.2.6

August 14, 2012 - version 2.2.6

...

\* Bug fixes

\* Make get\_content doesn't raise a BadResponseError for perfectly good responses like 304 Not Modified. Thanks to Florian Hars.

\* Add 'Content-Type: application/x-www-form-urlencoded' for the PUT request that has urlencoded entity-body.

\* Features

\* Add HTTPClient::IncludeClient by Jonathan Rochkind, a mix-in for easily adding a thread-safe lazily initialized class-level HTTPClient object to your class.

\* Proxy DigestAuth support. Thanks to Alexander Kotov and Florian Hars.

\* Accept an array of strings (and IO-likes) as a query value  
e.g. `{ x: 'a', y: [1,2,3] }` is encoded into `x=a&y=1&y=2&y=3`.  
Thanks to Akinori MUSA.

\* Allow body for DELETE method.

\* Allow :follow\_redirect => true for HEAD request.

\* Fill request parameters request\_method, request\_uri and request\_query as part of response Message::Header.

...

### ### Changes in 2.2.5



May 06, 2012 - version 2.2.5

...

\* Bug fixes

- \* Added Magic encoding comment to hexdump.rb to avoid encoding error.
- \* Add workaround for JRuby issue on Windows (JRUBY-6136)  
On Windows, calling File#size fails with an Unknown error (20047).  
This workaround uses File#lstat instead.
- \* Require open-uri only on ruby 1.9, since it is not needed on 1.8.

\* Features

- \* Allow symbol Header name for HTTP request.
- \* Dump more SSL certificate information under \$DEBUG.
- \* Add HTTPClient::SSLConfig#ssl\_version property.
- \* Add 'Accept: \*/\*' header to request by default. Rails requires it.  
It doesn't override given Accept header from API.
- \* Add HTTPClient::SSLConfig#set\_default\_paths. This method makes  
HTTPClient instance to use OpenSSL's default trusted CA certificates.
- \* Allow to set Date header manually.  
ex. client.get(uri, :header => {'Date' => Time.now.httpdate})

...

### Changes in 2.2.4

Dec 08, 2011 - version 2.2.4

...

\* Bug fixes

- \* Do not recycle buffer String object for yielding. When the response is  
not chunked and the size of the response > 16KB, API with block style  
yields recycled String object for each yields.
- \* Set VERSION string in User-Agent header. \$Id\$ didn't work long time...

Bugs are reported by Seamus Abshere. Thanks!

...

### Changes in 2.2.3

Oct 28, 2011 - version 2.2.3

...

\* Bug fixes

\* Ruby 1.8.6 support. It's broken from 2.2.0.  
...

### ### Changes in 2.2.2

Oct 17, 2011 - version 2.2.2

...

\* Bug fixes

\* Do not sort query params on request: Wrongly sorted query params for easier debugging but the order of request parameter should be preserved. #65

\* Changes

\* Set response String encoding if possible. Parse content-type response header with some helps from OpenURI::Meta and set response String encoding. #26

\* Improve connection cache strategy. Reuse cached session in MRU order, not in LRU. MRU is more server friendly than LRU because it reduces number of cached sessions when a number of requests drops after an usage spike.

With reusing sessions in LRU order, all sessions are equally checked if it's closed or not, as far as there's a request to the same site. With reusing sessions in MRU order, old cold sessions are kept in cache long time even if there's a request to the same site. To avoid this leakage, this version adds keep\_alive\_timeout property and let SessionManager scrub all sessions with checking the timeout for each session. When the session expires against the last used time, it's closed and collected.

keep\_alive\_timeout is 15[sec] by default. The value is from the default value for KeepAliveTimeout of Apache httpd 2. #68 #69

...

### ### Changes in 2.2.1

Jun 2, 2011 - version 2.2.1

...

\* Bug fixes

\* For Lighttpd + PUT/POST support, do not send a request using chunked encoding when IO respond to :size, File for example.

- There is no need to send query with Transfer-Encoding: chunked when

IO respond to :size.

- Lighttpd does not support PUT, POST with Transfer-Encoding: chunked. You will see that the lighty respond with 200 OK, but there is a file whose size is zero.

#### LIMITATION:

timeout occurs certainly when you send very large file and @send\_timeout is default since HTTPClient::Session#query() assumes that \*all\* write are finished in @send\_timeout sec not each write.

#### WORKAROUND:

increment @send\_timeout and @receive\_timeout or set @send\_timeout and @receive\_timeout to 0 not to be timeout.

This fix is by TANABE Ken-ichi <nabeken@tknetworks.org>. Thanks!

- \* Allow empty http\_proxy ENV variable. Just treat it the same as if it's nil/unset. This fix is by Ash Berlin <ash\_github@firemirror.com>. Thanks!

- \* Check EOF while reading chunked response and close the session. It raised NoMethodError.

#### \* Changes

- \* Updated trusted CA certificates file (cacert.p7s and cacert\_sha1.p7s). CA certs are imported from 'Java(TM) SE Runtime Environment (build 1.6.0\_25-b06)'.

- \* Changed default chunk size from 4K to 16K. It's used for reading size at a time.

...

#### ### Changes in 2.2.0

Apr 8, 2011 - version 2.2.0

...

#### \* Features

- \* Add HTTPClient#cookies as an alias of #cookie\_manager.cookies.
- \* Add res.cookies method. It returns parsed cookie in response header. It's different from client.cookie\_manager.cookies. Manager keeps persistent cookies in it.
- \* Add res.headers method which returns a Hash of headers. Hash key and value are both String. Each key has a single value so you can't extract exact value when a message has multiple headers like

'Set-Cookie'. Use header['Set-Cookie'] for that purpose.  
(It returns an Array always)

\* Allow keyword style argument for HTTPClient#get, post, etc.  
Introduced keywords are: :body, :query, and :header.

You can write

```
HTTPClient.get(uri, :header => {'X-custom' => '1'})
```

instead of;

```
HTTPClient.get(uri, nil, {'X-custom' => '1'})
```

\* Add new keyword argument :follow\_redirect to get/post. Now you can follow redirection response with passing :follow\_redirect => true.

\* [INCOMPAT] Rename HTTPClient::HTTP::Message#body to #http\_body, then add #body as an alias of #content. It's incompatible change though users rarely depends on this method. (I've never seen such a case)  
Users who are using req.body and/or res.body should follow this change. (req.http\_body and res.http\_body)

\* Bug fixes

\* Reenable keep-alive for chunked response.

This feature was disabled by c206b687952e1ad3e20c20e69bdbc1a9cb38609e at 2008-12-09. I should have written a test for keep-alive. Now I added it.

Thanks Takahiro Nishimura(@dr\_taka\_n) for finding this bug.

...

### ### Changes in 2.1.7

Mar 22, 2011 - version 2.1.7

...

\* Features

\* Add MD5-sess auth support. Thanks to wimm-dking. (#47)

\* Add SNI support. (Server Name Indication of HTTPS connection) (#49)

\* Add GSSAPI auth support using gssapi gem. Thanks to zenchild. (#50)

\* NTLM logon to exchange Web Services. [experimental] Thanks to curzonj and mcraigmccraig (#52)

\* Add HTTPOnly cookie support. Thanks to nbrosnahan. (#55)

\* Add HTTPClient#socket\_local for specifying local binding hostname and port of TCP socket. Thanks to icblenke.

...

### ### Changes in 2.1.6

Dec 20, 2010 - version 2.1.6

...

\* IMPORTANT update for HTTPS(SSL) connection

- \* Trusted CA bundle file cacert\_sha1.p7s for older environment (where you cannot use SHA512 algorithm such as an old Mac OS X) included in httpclient 2.1.5 expires in Dec 31, 2010. Please update to 2.1.6 if you're on such an environment.
- \* Updated trusted CA certificates file (cacert.p7s and cacert\_sha1.p7s). CA certs are imported from 'Java(TM) SE Runtime Environment (build 1.6.0\_22-b04)'.
- \* IMPORTANT bug fix for persistent connection
  - \* #29 Resource Leak: If httpclient establishes two connections to the same server in parallel, one of these connections will be leaked, patch by xb.
  - \* #30 When retrying a failed persistent connection, httpclient should use a fresh connection, reported by xb. These 2 fixes should fix 'Too many open files' error as well if you're getting this. Please check 2.1.6 and let me know how it goes!
- \* Features
  - \* #4 Added OAuthClient. See sample clients in sample/ dir.
  - \* #42 Added transparent\_gzip\_decompression property, patch by Teshootub7. All you need to use it is done by;
 

```
client.transparent_gzip_decompression = true
```

 Then you can retrieve a document as usual in decompressed format.
  - \* #38 Debug dump binary data (checking it includes \0 or not) in hex encoded format, patch by chetan.
- \* Bug fixes
  - \* #8 Opened certificate and key files for SSL not closed properly.
  - \* #10 "get" method gets blocked in "readpartial" when receiving a 304 with no Content-Length.
  - \* #11 Possible data corruption problem in asynchronous methods, patch by a user. (<http://dev.ctor.org/http-access2/ticket/228>)
  - \* #13 illegal Cookie PATH handling. When no PATH part given in Set-Cookie header, URL's path part should be used for path variable.
  - \* #16 httpclient doesn't support multiline server headers.
  - \* #19 set\_request\_header clobbers 'Host' header setting if given, patch by meuserj.
  - \* #20 Relative Location on https redirect fails, patch by zenchild.
  - \* #22 IIS/6 + MicrosoftSharePointTeamServices uses "NTLM" instead of "Negotiate".
  - \* #27 DigestAuth header: 'qop' parameter must not be enclosed between double quotation, patch by ibc.
  - \* #36 Wrong HTTP version in headers with Qt4 applications, reported by gauleng.
  - \* #38 DigestAuth + posting IO fails, patch by chetan.
  - \* #41 https-over-proxy fails with IIS, patch by tai.

^^^

### ### Changes in 2.1.5

Jun 25, 2009 - version 2.1.5.2

...

- \* Added another cacert distribution certificate which uses sha1WithRSAEncryption. OpenSSL/0.9.7 cannot handle non-SHA1 digest algorithm for certificate. The new certificate is RSA 2048 bit + SHA1 + notAfter:2010/12/31. Corresponding CA bundle file is cacert\_sha1.p7s. It is loaded only when cacert.p7s cannot be loaded with the original distribution certificate.

...

Jun 11, 2009 - version 2.1.5.1

...

- \* README update.

...

Jun 8, 2009 - version 2.1.5

...

- \* IMPORTANT update for HTTPS(SSL) connection
- \* Trusted CA bundle file included in httpclient <= 2.1.4 expires in Nov 2009. Please update to 2.1.5 by Oct 2009 if your application depends on trusted CA bundle file.
- \* Updated trusted CA certificates file (cacert.p7s). CA certs are imported from 'Java(TM) SE Runtime Environment (build 1.6.0\_13-b03)'.
- \* Updated a cacert distribution certificate.  
RSA 2048 bit + SHA512 + notAfter:2037/12/31. (#215)
- \* Feature
  - \* WWW authentication with Negotiate based on win32/sspi as same as Proxy authentication. Applied a patch from Paul Casto. Thanks! (#212)
- \* Bug fixes
  - \* Infinite loop caused by EOF error while reading response message body without Content-Length. IO#readpartial does not clear the second argument (buffer) when an exception raised. Fixed by a patch from an user. Thanks! (#216)
  - \* NoMethodError caused by the cookie string that includes a double semicolons ";;". Fixed by a patch from an user. Thanks! (#211)
  - \* CNONCE attribute in Digest Authentication was not properly generated by itself (used same nonce sent from the connecting server). Fixed by a patch from bterlson  
[<http://github.com/bterlson/httpclient/commit/6d0df734840985a7be88a2d54443bbf892d50b9a>]  
Thanks! (#209)
  - \* Cookie header was not set in authentication negotiation. Fixed. This

bug was found and pointed out by bterlson at  
[<http://github.com/bterlson/httpclient/commits/master>]. Thanks! (#210)

\* Do not send 'Content-Length: 0' when a request doesn't have message body. Some server application (!EasySoap++/0.6 for example) corrupts with the request with Content-Length: 0. This bug was found by clay  
[<http://daemons.net/~clay/2009/05/03/ruby-why-do-you-torment-me/>]. Thanks! (#217)

\* Ensure to reset connection after invoking HTTPClient singleton methods for accessing such as HTTPClient.get\_content. Thanks to @xgavin! (#214)

...

### ### Changes in 2.1.4

Feb 13, 2009 - version 2.1.4

...

#### \* Bug fixes

\* When we hit some site through http-proxy we get a response without Content-Length header. httpclient/2.1.3 drops response body for such case. fixed. (#199)

\* Avoid duplicated 'Date' header in request. Fixed. (#194)

\* Avoid to add port number to 'Host' header. Some servers like GFE/1.3 dislike it. Thanks to anonymous user for investigating the behavior. (#195)

\* httpclient/2.1.3 does not work when you fork a process after requiring httpclient module (Passenger). Thanks to Akira Yamada for tracing down this bug. (#197)

\* httpclient/2.1.3 cannot handle Cookie header with 'expires=' and 'expires=""'. Empty String for Time.parse returns Time.now unlike ParseDate.parsedate. Thanks to Mark for the patch. (#200)

...

### ### Changes in 2.1.3

Jan 8, 2009 - version 2.1.3.1

...

#### \* Security fix introduced at 2.1.3.

\* get\_content/post\_content of httpclient/2.1.3 may send secure cookies for a https site to non-secure (non-https) site when the https site redirects the request to a non-https site. httpclient/2.1.3 caches request object and reuses it for redirection. It should not be cached and recreated for each time as httpclient <= 2.1.2 and http-access2.

\* I realized this bug when I was reading open-uri story on [ruby-core:21205]. Ruby users should use open-uri rather than using net/http directly wherever possible.

...

Dec 29, 2008 - version 2.1.3

...

\* Features

- \* Proxy Authentication for SSL.
- \* Performance improvements.
- \* Full RDoc. Please tell me any English problem. Thanks in advance.
- \* Do multipart file upload when a given body includes a File. You don't need to set 'Content-Type' and boundary String any more.
- \* Added propfind and proppatch methods.

\* Changes

- \* Avoid unnecessary memory consuming for get\_content/post\_content with block. get\_content returns nil when you call it with a block.
- \* post\_content with IO did not work when redirect/auth cycle is required. (CAUTION: post\_content now correctly follows redirection and posts the given content)
- \* Exception handling cleanups.
  - \* Raises HTTPClient::ConfigurationError? for environment problem. (trying to do SSL without openssl installed for example)
  - \* Raises HTTPClient::BadResponse? for HTTP response problem. You can get the response HTTPMessage returned via \$!.res.
  - \* Raises SocketError? for connection problem (as same as before).

\* Bug fixes

- \* Avoid unnecessary negotiation cycle for Negotiate(NTLM) authentication. Thanks Rishav for great support for debugging Negotiate authentication.
- \* get\_content/post\_content with block yielded unexpected message body during redirect/auth cycle.
- \* Relative URI redirection should be allowed from 2.1.2 but it did not work... fixed.
- \* Avoid unnecessary timeout waiting when no message body returned such as '204 No Content' for DAV.
- \* Avoid blocking on socket closing when the socket is already closed by foreign host and the client runs under MT-condition.

...

### Changes in 2.1.2

Sep 22, 2007 - version 2.1.2

...

\* HTTP

- \* implemented Negotiate authentication with a support from exterior modules. 'rubyntlm' module is required for Negotiate auth with IIS. 'win32/sspi' module is required for Negotiate auth with ISA.
- \* a workaround for Ubuntu + SonicWALL timeout problem. try to send HTTP request in one chunk.



\* SSL

- \* create new self-signing dist-cert which has serial number 0x01 and embed it in httpclient.rb.
- \* update cacert.p7s. certificates are imported from cacerts in JRE 6 Update 2. 1 expired CA certificate 'C=US, O=GTE Corporation, CN=GTE CyberTrust Root' is removed.

\* Bug fix

- \* [BUG] SSL + debug\_dev didn't work under version 2.1.1.
- \* [BUG] Reason-Phrase of HTTP response status line can be empty according to RFC2616.

...

### Changes in 2.1.1

Aug 28, 2007 - version 2.1.1

...

\* bug fix

- \* domain\_match should be case insensitive. thanks to Brian for the patch.
- \* before calling SSLSocket#post\_connection\_check, check if RUBY\_VERSION > "1.8.4" for CN based wildcard certificate. when RUBY\_VERSION <= "1.8.4", it fallbacks to the post\_connection\_check method in HTTPClient so httpclient should run on 1.8.4 fine as before.

\* misc

- \* added HTTPClient#test\_loopback\_http\_response which accepts test loopback response which contains HTTP header.

...

### Changes in 2.1.0

Jul 14, 2007 - version 2.1.0

...

- \* program/project renamed from 'http-access2' to 'httpclient'. there's compatibility layer included so existing programs for http-access2 which uses HTTPAccess2::Client should work with httpclient/2.1.0 correctly.

\* misc

- \* install.rb did not install cacerts.p7s. Thanks to knu.
- \* now HTTPClient loads http\_proxy/HTTP\_PROXY and no\_proxy/NO\_PROXY environment variable at initialization time. bear in mind that it doesn't load http\_proxy/HTTP\_PROXY when a library is considered to be running under CGI environment (checked by ENVREQUEST\_METHOD existence. cgi\_http\_proxy/CGI\_HTTP\_PROXY is loaded instead.

...

### ### Changes in 2.0.9

Jul 4, 2007 - version 2.0.9

...

- \* bug fix
- \* fix the BasicAuth regression problem in 2.0.8. A server may return "BASIC" as an authenticate scheme label instead of "Basic". It must be treated as a case-insensitive token according to RFC2617 section 1.2. Thanks to mwedeme for contributing the patch. (#159)

...

### ### Changes in 2.0.8

Jun 30, 2007 - version 2.0.8

...

- \* HTTP
- \* added request/response filter interface and implemented DigestAuth based on the filter interface. DigestAuth calc engine is based on <http://tools.assembla.com/breakout/wiki/DigestForSoap> Thanks to sromano. (#155)
- \* re-implemented BasicAuth based on the filter interface. send BasicAuth header only if it's needed. (#31)
- \* handle a response which has 2XX status code as a successful response while retry check. applied the patch from Micah Wedemeyer. Thanks! (#158)

- \* Connection
- \* show more friendly error message for unconnectable URL. (#156)

- \* bug fixes
- \* to avoid MIME format incompatibility, add empty epilogue chunk explicitly. Thanks to the anonymous user who reported #154 (#154)
- \* rescue EPIPE for keep-alive reconnecting. Thanks to anonymous user who posted a patch at #124. (#124)

...

### ### Changes in 2.0.7

May 13, 2007 - version 2.0.7

...

- \* HTTP
- \* added proxyauth support. (#6)
- \* let developer allow to rescue a redirect with relative URI. (#28)

- \* changed last-chunk condition statement to allow "0000\r\n" marker from WebLogic Server 7.0 SP5 instead of "0\r\n". (#30)
  - \* fixed multipart form submit. (#29, #116)
  - \* use http\_date format as a date in a request header. (#35)
  - \* avoid duplicated Date header when running under mod\_ruby. (#127)
  - \* reason phrase in Message#reason contains \r. (#122)
  - \* trim "\n"s in base64 encoded BasicAuth value for interoperability. (#149)
  - \* let retry\_connect return a Message not a content. (#119)
  - \* rescue SocketError and dump a message when a wrong address given. (#152)
- \* HTTP-Cookies
    - \* changed "domain" parameter matching condition statement to allow followings; (#24, #32, #118, #147)
      - \* [host, domain] = [rubyforge.com, .rubyforge.com]
      - \* [host, domain] = [reddit.com, reddit.com]
- \* SSL
    - \* bundles CA certificates as trust anchors.
    - \* allow user to get peer\_cert. (#117, #123)
    - \* added wildcard certificate support. (#151)
    - \* SSL + HTTP keep-alive + long wait causes uncaught exception. fixed. (#120)
  - \* Connection
    - \* fixed a loop condition bug that caused intermittent empty response. (#150, #26, #125)
- ...

### ### Changes in 2.0.6

September 16, 2005 - version 2.0.6

...

- \* HTTP
  - \* allows redirects from a "POST" request. imported a patch from sveit. Thanks! (#7)
  - \* add 'content-type: application/application/x-www-form-urlencoded' when a request contains message-body. (#11)
  - \* HTTP/0.9 support. (#15)
  - \* allows submitting multipart forms. imported a patch from sveit. Thanks! (#7)
- \* HTTP-Cookies
  - \* avoid NameError when a cookie value is nil. (#10)
  - \* added netscape\_rule property to CookieManager (false by default). You can turn on the domain attribute test of Netscape rule with the property. cf. [http://wp.netscape.com/newsref/std/cookie\\_spec.html](http://wp.netscape.com/newsref/std/cookie_spec.html)

\* added HTTPClient#cookie\_manager property for accessing its properties.  
(#13)

\* added save\_all\_cookies method to save unused and discarded cookies as well. The patch is from Christian Lademann. Thanks! (#21)

\* allow to set cookie\_manager. raise an error when set\_cookie\_store called and cookie\_store has already been set. (#20)

#### \* SSL

\* allows SSL connection debugging when debug\_dev != nil. (#14)

\* skip post\_connection\_check when  
verify\_mode == OpenSSL::SSL::VERIFY\_NONE. Thanks to kdraper. (#12)

\* post\_connection\_check: support a certificate with a wildcard in the  
hostname. (#18)

\* avoid NameError when no peer\_cert and VERIFY\_FAIL\_IF\_NO\_PEER\_CERT  
given. Thanks to Christian Lademann.

#### \* Connection

\* insert a connecting host and port to an exception message when  
connecting failed. (#5)

\* added socket\_sync property to HTTPClient(HTTPAccess2::Client) that  
controls socket's sync property. the default value is true. CAUTION:  
if your ruby is older than 2005-09-06 and you want to use SSL  
connection, do not set socket\_sync = false to avoid a blocking bug of  
openssl/buffering.rb.

...

### ### Changes in 2.0.5

December 24, 2004 - version 2.0.5

...

This is a minor bug fix release.

- Connect/Send/Receive timeout cannot be configured. fixed.

- IPSocket#addr caused SocketError? on Mac OS X 10.3.6 + ruby-1.8.1 GA.  
fixed.

- There is a server which does not like 'foo.bar.com:80' style Host header.

The server for [http://rubyforge.org/export/rss\\_sfnews.php](http://rubyforge.org/export/rss_sfnews.php) seems to

dislike HTTP/1.1 Host header "Host: rubyforge.net:80". It returns

HTTP 302: Found and redirects to the page again, causes

HTTPAccess2::Client to raise "retry count exceeded". Keat found that the  
server likes "Host: rubyforge.net" (not with port number).

...

### ### Changes in 2.0.4

February 11, 2004 - version 2.0.4

...

- add Client#redirect\_uri\_callback interface.
  - refactorings and bug fixes found during negative test.
  - add SSL test.
- ...

### ### Changes in 2.0.3

December 16, 2003 - version 2.0.3

...

- no\_proxy was broken in 2.0.2.
  - do not dump 'Host' header under protocol\_version == 'HTTP/1.0'
- ...

### ### Changes in 2.0.2

December ?, 2003 - version 2.0.2

...

- do not trust HTTP\_PROXY environment variable. set proxy server manually.  
<http://ftp.ics.uci.edu/pub/websoft/libwww-perl/archive/2001h1/0072.html>  
<http://ftp.ics.uci.edu/pub/websoft/libwww-perl/archive/2001h1/0241.html>  
<http://curl.haxx.se/mail/archive-2001-12/0034.html>
  - follow openssl change.
- ...

### ### Changes in 2.0.1

October 4, 2003 - version 2.0.1

...

- Query was not escaped when query was given as an Array or a Hash. Fixed.
  - Do not use http\_proxy defined by ENV['http\_proxy'] or ENV['HTTP\_PROXY'] if the destination host is 'localhost'.
  - Hosts which matches ENV['no\_proxy'] or ENV['NO\_PROXY'] won't be proxied. [,:] separated. ("ruby-lang.org:rubyist.net")
  - No regexp. (give "ruby-lang.org", not "\*.ruby-lang.org")
  - If you want specify host by IP address, give full address. ("192.168.1.1, 192.168.1.2")
- ...

### ### Changes in 2.0

September 10, 2003 - version 2.0

...

- CamelCase to non\_camel\_case.
- SSL support (requires Ruby/OpenSSL).

Cookies support. lib/http-access2/cookie.rb is redistributed file which is originally included in Webagent by TAKAHASHI `Maki' Masayoshi. You can download the entire package from <http://www.rubycolor.org/arc/>.

...

January 11, 2003 - version J

...

ruby/1.8 support.

...

Found in path(s):

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-2.7.2/CHANGELOG.md

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

httpclient - HTTP accessing library. [![Gem Version](https://badge.fury.io/rb/httpclient.svg)](http://badge.fury.io/rb/httpclient)

Copyright (C) 2000-2015 NAKAMURA, Hiroshi <nahi@ruby-lang.org>.

'httpclient' gives something like the functionality of libwww-perl (LWP) in Ruby. 'httpclient' formerly known as 'http-access2'.

See [HTTPClient](http://www.rubydoc.info/gems/httpclient/frames) for documentation.

## ## Features

- \* methods like GET/HEAD/POST/\* via HTTP/1.1.
- \* HTTPS(SSL), Cookies, proxy, authentication(Digest, NTLM, Basic), etc.
- \* asynchronous HTTP request, streaming HTTP request.
- \* debug mode CLI.
- \* by contrast with net/http in standard distribution;
- \* Cookies support
- \* MT-safe
- \* streaming POST (POST with File/IO)
- \* Digest auth
- \* Negotiate/NTLM auth for WWW-Authenticate (requires net/ntlm module; rubyntlm gem)
- \* NTLM auth for Proxy-Authenticate (requires 'win32/sspi' module; rubysspi gem)
- \* extensible with filter interface
- \* you don't have to care HTTP/1.1 persistent connection (httpclient cares instead of you)
- \* Not supported now
- \* Cache
- \* Rather advanced HTTP/1.1 usage such as Range, deflate, etc. (of course you can set it in header by yourself)

## ## httpclient command

Usage: 1) `httpclient get https://www.google.co.jp/?q=ruby`

Usage: 2) `httpclient`

For 1) it issues a GET request to the given URI and shows the wire dump and the parsed result. For 2) it invokes irb shell with the binding that has a HTTPClient as 'self'. You can call HTTPClient instance methods like;

```
``ruby
get "https://www.google.co.jp/", :q => :ruby
``
```

## ## Author

\* Name:: Hiroshi Nakamura

\* E-mail:: nahi@ruby-lang.org

\* Project web site:: <http://github.com/nahi/httpclient>

## ## License

This program is copyrighted free software by NAKAMURA, Hiroshi. You can redistribute it and/or modify it under the same terms of Ruby's license; either the dual license version in 2003, or any later version.

httpclient/session.rb is based on http-access.rb in http-access/0.0.4. Some part of it is copyrighted by Maebashi-san who made and published http-access/0.0.4. http-access/0.0.4 did not include license notice but when I asked Maebashi-san he agreed that I can redistribute it under the same terms of Ruby. Many thanks to Maebashi-san.

## ## Install

You can install httpclient via rubygems: `gem install httpclient`

## ## Usage

See [HTTPClient](<http://www.rubydoc.info/gems/httpclient/frames>) for documentation. You can also check [sample/howto.rb](#) how to use APIs.

## ## Bug report or Feature request

Please file a ticket at the project web site.

1. find a similar ticket from <https://github.com/nahi/httpclient/issues>
2. create a new ticket by clicking 'Create Issue' button.

3. you can use github features such as pull-request if you like.

## Changes

See [ChangeLog](https://github.com/naht/httpclient/blob/master/CHANGELOG.md)

Found in path(s):

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-2.7.2/README.md

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# either the dual license version in 2003, or any later version.

Found in path(s):

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-2.7.2/lib/httpclient/timeout.rb

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-2.7.2/lib/oauthclient.rb

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-2.7.2/lib/httpclient/ssl\_config.rb

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-2.7.2/lib/httpclient/ssl\_socket.rb

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-2.7.2/lib/httpclient.rb

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-

2.7.2/lib/httpclient/jruby\_ssl\_socket.rb

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-2.7.2/lib/http-access2.rb

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-2.7.2/lib/httpclient/util.rb

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-2.7.2/lib/httpclient/connection.rb

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-2.7.2/lib/httpclient/http.rb

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-2.7.2/lib/httpclient/session.rb

\* /opt/cola/permits/1310993014\_1650379903.28/0/httpclient-2-7-2-zip/httpclient-2.7.2/lib/httpclient/auth.rb

# 1.369 libfastjson 0.99.4 3.e17

## 1.369.1 Available under license :

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# 1.370 libqrencode 3.4.1-3.el7

## 1.370.1 Available under license :

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Version 2.1, February 1999

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# 1.375 python 3.6.8-18.el7

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <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.

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
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## 1.376 gobject-introspection 1.56.1-1.el7

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- \* MacBinary III spec.
- \* -----
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- \* (available at ftp://ftp.lazerware.com/MacBinaryIII\_src\_C.sit
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-----

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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## 1.378 Isof 4.87 6.el7

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```
/*
 * regex.h -- regular expression definitions for lsof
 *
 * This header file is used only when the dialect has no POSIX-conformant
 * regular expression function set.  When that is the case, the dialect's
 * machine.h will define USE_LIB_REGEX.
 *
 * When the dialect has a POSIX-conformant regular expression function set,
 * USE_LIB_REGEX is not defined and this header file #include's <regex.h>.
 *
 * V. Abell <abe@purdue.edu>
 * Purdue University
 */
```

```
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*/
```

```
#ifdef USE_LIB_REGEX
```

```
/*
* This section comes from GLIBC 2.2. It is used only when the dialect
* has no POSIX-conformant regular expression function set. When that is
* the case, the dialect's machine.h will define USE_LIB_REGEX.
*/
```

```
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expression library, version 0.12.
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## 1.384 zlib 1.2.7-19.el7\_9

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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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|----------------|--------------|-----------|------------|---------------------|
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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 |
| 2.2   | 2.1.1     | 2001      | PSF | yes |
| 2.1.2 | 2.1.1     | 2002      | PSF | yes |
| 2.1.3 | 2.1.2     | 2002      | PSF | yes |
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| 2.2.2 | 2.2.1     | 2002      | PSF | yes |
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## 1.388 nfs-utils 1.3.0-0.68.el7.2

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- \* HOMEPAGE:
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- \* LICENSE:
  - \* license/LICENSE.mvn-wrapper.txt (Apache License 2.0)
- \* HOMEPAGE:
  - \* <https://github.com/takari/maven-wrapper>

This product contains the dnsinfo.h header file, that provides a way to retrieve the system DNS configuration on MacOS.

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\* LICENSE:

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\* HOMEPAGE:

\* <https://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/dnsinfo.h>

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\* LICENSE:

\* license/LICENSE.brotli4j.txt (Apache License 2.0)

\* HOMEPAGE:

\* <https://github.com/hyperxpro/Brotli4j>

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# 1.390 opencontainers-runtime-spec 1.0.3-0.20200728170252-4d89ac9fbff6

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## 1.391 mesa 18.3.4-12.el7\_9

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Subject: RE: Question about Mesa MLAA license  
From: Jorge Jimenez <iryoku@gmail.com>  
Date: 01/08/2013 12:50 PM  
To: Tom Callaway <tcallawa@redhat.com>  
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,  
Jorge

From: Tom Callaway <tcallawa@redhat.com>

Sent: January 8, 2013 6:49 PM  
To: Jorge Jimenez <iryoku@gmail.com>  
CC: jorge@iryoku.com  
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:

> Hi Tom,

>

> What we meant with that is that we made an exception for clause 2.

> Instead of clause 2, in the case of the Mesa project, you have to name

> the technique Jimenez's MLAA in the config options of Mesa. We did that

> just to allow them to solve license issues. This exception should be for

> the Mesa project, and any project using Mesa, like Fedora.

>

> We want to widespread usage of our MLAA, so we want to avoid any kind of

> license complications. Hope current one is good for Fedora, if not

> please tell, and we'll see what we can do!

Okay, a few more questions:

\* If Fedora decides to simply reproduce the quoted statement:

"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,  
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with  
Mesa, is that sufficient to meet clause 2 even if the Mesa config option  
is not set as described in your exception?

\* Currently, the Mesa config option for MLAA says: "Morphological  
anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default  
quality". Is this in compliance with your exception?

Thanks again,

~tom

==

Fedora Project

Subject: RE: Question about Mesa MLAA license  
From: Jorge Jimenez <iryoku@gmail.com>  
Date: 01/08/2013 12:39 PM  
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2.

Instead of clause 2, in the case of the Mesa project, you have to name

the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,  
Jorge

From: Tom Callaway <tcallawa@redhat.com>  
Sent: January 8, 2013 6:30 PM  
To: jorge@iryoku.com  
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

- \* 2. Redistributions in binary form must reproduce the following statement:
- \*  
\* "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,  
\* Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."  
\*  
\* Only for use in the Mesa project, this point 2 is filled by naming the  
\* technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

\*\*\*\*\*

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!



Thanks in advance,

Tom Callaway  
Fedora Legal

==

Fedora Project

# 1.392 screen 4.1.0- 0.27.20120314git3c2946.el7\_9

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Version 3, 29 June 2007

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt  
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analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java  
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java  
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/* * It does require the zlib library and optionally the IJG jpeg library, * */
/* * and/or the "little-cms" library by Marti Maria (depending on the * */
/* * inclusion of support for JNG and Full-Color-Management respectively. * */
/* *                                     * */
/* * This library's function is primarily to read and display MNG * */
/* * animations. It is not meant as a full-featured image-editing * */
/* * component! It does however offer creation and editing functionality * */
/* * at the chunk level. * */
/* * (future modifications may include some more support for creation * */
/* * and or editing) * */
/* *                                     * */
/* * **** */

```

## MNGPLG

A simple browser plug-in for the MNG image/animation file format.

By Jason Summers <jason1@pobox.com>

Web site: <<http://pobox.com/~jason1/mngplg/>>

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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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.
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- 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.

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b) Give prominent notice with the combined library of the fact



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END OF TERMS AND CONDITIONS

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  
Ty Coon, President of Vice

That's all there is to it!

# 1.395 libtool 2.4.2 22.el7\_3

## 1.395.1 Available under license :

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Version 2.1, February 1999

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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.

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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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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.)

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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.

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.

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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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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.

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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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 *
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 */

```

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\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/analysis/BasicValue.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/IncInsnNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/optimizer/JarOptimizer.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Attribute.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/commons/StaticInitMerger.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/util/CheckMethodAdapter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/TypeAnnotationNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/util/CheckClassAdapter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/analysis/SmallSet.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/util/TraceFieldVisitor.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Edge.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/analysis/Frame.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/IntInsnNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/InsnNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/FieldNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-

jar/org/objectweb/asm/util/CheckSignatureAdapter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/commons/AdviceAdapter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/ClassVisitor.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/FieldInsnNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/util/CheckFieldAdapter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Handler.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/LocalVariableNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/ClassReader.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/commons/RemappingClassAdapter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/analysis/Interpreter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/TryCatchBlockNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/signature/SignatureReader.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java  
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jar/org/objectweb/asm/tree/LineNumberNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/ClassWriter.java  
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jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java  
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jar/org/objectweb/asm/AnnotationVisitor.java  
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jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/JumpInsnNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/AnnotationNode.java  
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jar/org/objectweb/asm/optimizer/ConstantPool.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java  
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jar/org/objectweb/asm/optimizer/Shrinker.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/analysis/Subroutine.java

\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/Remapper.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/signature/SignatureVisitor.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/VarInsnNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Item.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/NameMapping.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/TypeInsnNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/ClassOptimizer.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/MethodNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/LocalVariablesSorter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/util/TraceSignatureVisitor.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/util/Printer.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/util/TraceClassVisitor.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/analysis/SourceValue.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Type.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/FieldVisitor.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/util/TraceMethodVisitor.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/LabelNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/Method.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/tree/analysis/Value.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/signature/SignatureWriter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/AnnotationWriter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/FieldWriter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-

jar/org/objectweb/asm/MethodWriter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/commons/SimpleRemapper.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/util/TraceAnnotationVisitor.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/commons/RemappingFieldAdapter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/Frame.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/InsnList.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/commons/RemappingMethodAdapter.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/optimizer/MethodOptimizer.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/tree/AbstractInsnNode.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/optimizer/Constant.java  
\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/MethodVisitor.java

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```

```
*/
```

```
/**
```

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

```
 *
```

```
 * @throws IllegalStateException
```

```
 *     If a subclass calls this constructor.
```

```
*/
```

Found in path(s):

```
*/opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/tree/ClassNode.java
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```
*/
```

```

/**
 * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *
 * @param typeRef
 *     a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 *     the path to the annotated type argument, wildcard bound, array
 *     element type, or static inner type within 'typeRef'. May be
 *     <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 *     the first instructions corresponding to the continuous ranges
 *     that make the scope of this local variable (inclusive).
 * @param end
 *     the last instructions corresponding to the continuous ranges
 *     that make the scope of this local variable (exclusive). This
 *     array must have the same size as the 'start' array.
 * @param index
 *     the local variable's index in each range. This array must have
 *     the same size as the 'start' array.
 * @param desc
 *     the class descriptor of the annotation class.
 */

```

Found in path(s):

```

* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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jar/org/objectweb/asm/TypeReference.java

\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/TypePath.java

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```

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

```

Found in path(s):

`/opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/AnalyzerAdapter.java`

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\*/

/\*\*

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

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\* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-  
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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- \* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/shrink-annotations.properties
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- \* /opt/cola/permits/1136404780\_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/optimizer/shrink-resize.properties

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```
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```

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```

```
*/
```

```
/**
```

```
* Creates a new {@link GeneratorAdapter}. Subclasses must not use this
* constructor. Instead, they must use the
* {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
* version.
*
* @param mv
* the method visitor to which this adapter delegates calls.
* @param access
* the method's access flags (see {@link Opcodes}).
* @param name
* the method's name.
* @param desc
* the method's descriptor (see {@link Type Type}).
* @throws IllegalStateException
* If a subclass calls this constructor.
```

```
*/
```

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jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java  
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# 1.398 ustr 1.0.4 16.e17

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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.

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# 1.399 elasticsearch-scripting-painless-spi

## 7.16.3

### 1.399.1 Available under license :

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## 1.405 net-scp 1.2.1

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# 1.406 go-units 0.4.0

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## 1.407 net-sftp 2.1.2

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## 1.408 grep 2.20-3.el7

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. 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 program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>

This program 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 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

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

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

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may 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.

## The "Artistic License"

### Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

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"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

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1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
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3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:
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  - c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

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The End

## 1.410 curl 7.29.0-59.el7\_9.1

### 1.410.1 Available under license :

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License Mixing with apps, libcurl and Third Party Libraries

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause 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.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl <http://curl.haxx.se/docs/copyright.html>

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL <http://www.openssl.org/source/license.html>

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS <http://www.gnutls.org/>

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libcrypt and libpgg-error) and they too are LGPL- or GPL-licensed.

yassl <http://www.yassl.com/>

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS <http://www.mozilla.org/projects/security/pki/nss/>

(May be used for SSL/TLS support) Is covered by the MPL[4] license, the GPL[1] license and the LGPL[3] license. You may choose to license the code under MPL terms, GPL terms, or LGPL terms. These licenses grant you different permissions and impose different obligations. You

should select the license that best meets your needs.

axTLS <http://axtls.sourceforge.net/>

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib [http://www.gzip.org/zlib/zlib\\_license.html](http://www.gzip.org/zlib/zlib_license.html)

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal <http://www.pdc.kth.se/heimdal/>

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS <http://www.gnu.org/software/gss/>

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn <http://josefsson.org/libidn/>

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP <http://www.openldap.org/software/release/license.html>

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 <http://www.libssh2.org/>

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

[1] = GPL - GNU General Public License: <http://www.gnu.org/licenses/gpl.html>

[2] = <http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs> details on how to write such an exception to the GPL

[3] = LGPL - GNU Lesser General Public License:

<http://www.gnu.org/licenses/lgpl.html>

[4] = MPL - Mozilla Public License:

<http://www.mozilla.org/MPL/>

## 1.411 cassandra-driver-core 2.0.9.2

### 1.411.1 Available under license :

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

/\*

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\*/

Found in path(s):

- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/querybuilder/Batch.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/exceptions/UnauthorizedException.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/Session.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/Message.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/policies/CloseableLoadBalancingPolicy.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/exceptions/QueryValidationException.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/Requests.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/policies/RetryPolicy.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/exceptions/DriverInternalError.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/ProtocolOptions.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/BoundStatement.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/Token.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/Utils/UUIDs.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/FrameCompressor.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/policies/FallthroughRetryPolicy.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/LatencyTracker.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/exceptions/QueryTimeoutException.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/SimpleStatement.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/policies/DowngradingConsistencyRetryPolicy.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/ExceptionCatchingRunnable.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/Configuration.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-jar/com/datastax/driver/core/exceptions/InvalidConfigurationInQueryException.java
- \* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-

jar/com/datastax/driver/core/ConvictionPolicy.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/exceptions/AlreadyExistsException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/policies/LoggingRetryPolicy.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/exceptions/InvalidQueryException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/Responses.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/exceptions/QueryExecutionException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/policies/AddressTranslator.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/Connection.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/PreparedStatement.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/querybuilder/Truncate.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/policies/LoadBalancingPolicy.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/Authenticator.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/policies/WhiteListPolicy.java  
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\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
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\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
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\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
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\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
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\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
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\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
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\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
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\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
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\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/Host.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/BatchStatement.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/querybuilder/Clause.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/exceptions/InvalidTypeException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/policies/package-info.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/querybuilder/Utils.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/querybuilder/QueryBuilder.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/ConsistencyLevel.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/Utils/Bytes.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/exceptions/NoHostAvailableException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/TableMetadata.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/CBUtil.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-

jar/com/datastax/driver/core/ConnectionException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/PreparedStatement.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/exceptions/UnavailableException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/RegularStatement.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/exceptions/TraceRetrievalException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/exceptions/DriverException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/PoolingOptions.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/querybuilder/Insert.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/policies/DefaultRetryPolicy.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/KeyspaceMetadata.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/CloseFuture.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/querybuilder/BuiltStatement.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/package-info.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/QueryOptions.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/BusyConnectionException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/AbstractSession.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/exceptions/UnsupportedFeatureException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/MD5Digest.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/ClusterNameMismatchException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/policies/ExponentialReconnectionPolicy.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/VersionNumber.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/policies/TokenAwarePolicy.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/policies/ConstantReconnectionPolicy.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/exceptions/WriteTimeoutException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-

jar/com/datastax/driver/core/exceptions/ReadTimeoutException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/exceptions/AuthenticationException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/MetricsOptions.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/querybuilder/Assignment.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/PlainTextAuthProvider.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/exceptions/package-info.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/ProtocolV1Authenticator.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/policies/Policies.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/querybuilder/package-info.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/Statement.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/querybuilder/Ordering.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/AuthProvider.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/TransportException.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/DefaultPreparedStatement.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/Metrics.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/TypeCodec.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/ResultSetFuture.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/querybuilder/Delete.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/CassandraTypeParser.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/Frame.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/AbstractReconnectionHandler.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/ResultSet.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/PooledConnection.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/ExecutionInfo.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-



jar/com/datastax/driver/core/ColumnDefinitions.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/SSLOptions.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/DataType.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/policies/ChainableLoadBalancingPolicy.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/SocketOptions.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/SimpleJSONParser.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/exceptions/SyntaxError.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/policies/LatencyAwarePolicy.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/policies/RoundRobinPolicy.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/ExceptionCode.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/querybuilder/Select.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/DefaultResultSetFuture.java  
\* /opt/cola/permits/1270821309\_1644846760.34/0/cassandra-driver-core-2-0-9-2-sources-  
jar/com/datastax/driver/core/StreamIdGenerator.java

## 1.412 net-snmp 5.7.2

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## 1.416 at 3.1.13 24.e17

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This is the Debian GNU/Linux prepackaged version of the deferred execution scheduler called at.

This package was debianized by its author Thomas Koenig <ig25@rz.uni-karlsruhe.de>, taken over and re-packaged first by Martin Schulze <joe@debian.org> and then by Siggie Brentrup <bsb@winnegan.de>, and then taken over by Ryan Murray <rmurray@debian.org>.

In August 2009 the upstream development and Debian packaging were taken over by Ansgar Burchardt <ansgar@debian.org> and Cyril Brulebois <kibi@debian.org>.

This may be considered the experimental upstream source, and since there doesn't seem to be any other upstream source, the only upstream source.

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 */
```

Found in path(s):

```
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/CollectSpliterators.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/graph/package-info.java
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 */
```

```
*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
 *   ImmutableSortedMap#of(Comparable, Object)}.</b>
 */
```

Found in path(s):

```
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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Found in path(s):

```
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/UncheckedExecutionException.java
```



\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/UnsignedInteger.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Ticker.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/TypeParameter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/Weigher.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/BoundType.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/math/MathPreconditions.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ForwardingCheckedFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AsyncFunction.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/LoadingCache.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/MessageDigestHashFunction.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/Types.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/UnsignedLongs.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RegularImmutableMultiset.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/CacheStats.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/ForwardingCache.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/TreeRangeSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/AbstractStreamingHasher.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/Murmur3\_128HashFunction.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Absent.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/CacheLoader.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/Uninterruptibles.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/AbstractCompositeHashFunction.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/math/package-info.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/PrimitiveSink.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/RemovalListener.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/UnsignedLong.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/EmptyContiguousSet.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RegularContiguousSet.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/AbstractLoadingCache.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/HashFunction.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/math/DoubleMath.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/Crc32cHashFunction.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/BloomFilterStrategies.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractSortedMultiset.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/RemovalNotification.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/HashCode.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/RemovalCause.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/Hasher.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/ParseRequest.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/AbstractHasher.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/net/HttpHeaders.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/Funnel.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/math/DoubleUtils.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ExecutionError.java

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jar/com/google/common/math/LinearTransformation.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/package-info.java  
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jar/com/google/common/reflect/package-info.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
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jar/com/google/common/math/PairedStats.java  
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jar/com/google/common/collect/RegularImmutableTable.java  
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- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractIndexedListIterator.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RegularImmutableSortedSet.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableSortedMap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableTable.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableAsList.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RegularImmutableList.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/EmptyImmutableSetMultimap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingTable.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/DiscreteDomain.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ComparisonChain.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ArrayTable.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableSetMultimap.java

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jar/com/google/common/base/CommonPattern.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/CommonMatcher.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/JdkPattern.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/PatternCompiler.java

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\* This method was rewritten in Java from an intermediate step of the Murmur hash function in  
\* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the  
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jar/com/google/common/base/SmallCharMatcher.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/FilteredMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SortedMultisetBridge.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/FilteredKeyListMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/CompactHashSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/DescendingImmutableSortedSet.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-

jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
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jar/com/google/common/collect/CompactLinkedHashMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
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jar/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ForwardingImmutableList.java  
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jar/com/google/common/collect/FilteredEntrySetMultimap.java  
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jar/com/google/common/collect/FilteredEntryMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/FilteredKeySetMultimap.java  
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jar/com/google/common/collect/ForwardingDeque.java  
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jar/com/google/common/collect/TreeTraverser.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/TransformedIterator.java  
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jar/com/google/common/collect/FilteredSetMultimap.java  
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jar/com/google/common/collect/AllEqualOrdering.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ForwardingImmutableMap.java  
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jar/com/google/common/collect/RangeMap.java  
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jar/com/google/common/collect/ForwardingNavigableSet.java  
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jar/com/google/common/collect/CompactLinkedHashSet.java  
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- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Collections2.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RegularImmutableBiMap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/TreeBasedTable.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMapValues.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableCollection.java
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- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/EmptyImmutableListMultimap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMultimap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Range.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/UnmodifiableIterator.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SingletonImmutableBiMap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Table.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/StandardTable.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMapKeySet.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Platform.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/PeekingIterator.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/StandardRowSortedTable.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableEntry.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMap.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableMapEntrySet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/HashBasedTable.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableSortedSet.java  
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- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/AbstractGraph.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/EndpointPairIterator.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/LinkedHashMapMultimapGwtSerializationDependencies.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/NetworkBuilder.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/DirectedNetworkConnections.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/NetworkConnections.java
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- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/EdgesConnecting.java
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- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/MutableValueGraph.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/UndirectedGraphConnections.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/CollectCollectors.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ConfigurableNetwork.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/GraphConnections.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/AbstractNetwork.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ElementOrder.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ConfigurableMutableGraph.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/MapRetrievalCache.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/DirectedGraphConnections.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/DirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/EndpointPair.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/MoreCollectors.java



\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ConfigurableMutableValueGraph.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java  
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\*

\* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's  
\* `java.util.HashMap` class.

\*/

Found in path(s):

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/Striped.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableSortedAsList.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/InsecureRecursiveDeleteException.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/Graph.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ImmutableGraph.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/MutableNetwork.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/Graphs.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/TopKSelector.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/ImmutableNetwork.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/Network.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/SuccessorsFunction.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/RecursiveDeleteOption.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/PredecessorsFunction.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/graph/MutableGraph.java

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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/Converter.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/FluentIterable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/Stopwatch.java
```

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AbstractCheckedFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/CheckedFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Doubles.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/CharMatcher.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Ints.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Chars.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/thirdparty/publicsuffix/TrieParser.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Shorts.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/Escaper.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Booleans.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/GwtTransient.java

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*/
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

```

Found in path(s):

```

* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/ObjectArrays.java

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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-

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jar/com/google/common/collect/MultimapBuilder.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/MoreFiles.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ImmutableMapEntry.java  
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*/  
/*  
* This method was rewritten in Java from an intermediate step of the Murmur hash function in  
* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the  
* following header:  
*  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Hashing.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AggregateFutureState.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/ReaderInputStream.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/LittleEndianByteArray.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/MacHashFunction.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/Platform.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/FarmHashFingerprint64.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AsyncCallable.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/InterruptibleTask.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ConsumingQueueIterator.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/CaseFormat.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AggregateFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/CollectionFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/UncheckedTimeoutException.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/CharEscaper.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/annotations/VisibleForTesting.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/AppendableWriter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ImmediateFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/TimeoutFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/FluentFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AbstractTransformFuture.java



\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/TimeLimiter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/Futures.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/PatternFilenameFilter.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/reflect/TypeToken.java

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- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/MapDifference.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/LinkedHashMultimap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Multimaps.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ArrayListMultimap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractSetMultimap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractListMultimap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SingletonImmutableSet.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractIterator.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractMultiset.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/EnumHashBiMap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/HashMultiset.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingMapEntry.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractMapBasedMultiset.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingIterator.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SortedSetMultimap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/UsingToStringOrdering.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractSortedSetMultimap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ListMultimap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/Iterators.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/TreeMultimap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/NullsLastOrdering.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingMultimap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/LinkedListMultimap.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-

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jar/com/google/common/collect/ForwardingSortedSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
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jar/com/google/common/collect/Sets.java  
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jar/com/google/common/collect/Ordering.java  
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jar/com/google/common/collect/ForwardingMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ClassToInstanceMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ForwardingConcurrentMap.java  
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jar/com/google/common/collect/BiMap.java  
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jar/com/google/common/collect/AbstractMapEntry.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/LexicographicalOrdering.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
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jar/com/google/common/collect/TreeMultiset.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
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jar/com/google/common/collect/ForwardingMultiset.java  
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jar/com/google/common/collect/ForwardingList.java  
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jar/com/google/common/collect/Maps.java  
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jar/com/google/common/collect/package-info.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ReverseNaturalOrdering.java  
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jar/com/google/common/collect/SetMultimap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ForwardingQueue.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/MutableClassToInstanceMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/ComparatorOrdering.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/EnumBiMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/LinkedHashMultiset.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/AbstractIterator.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/ByteStreams.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/DirectExecutor.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/LittleEndianDataOutputStream.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Functions.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Throwables.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/package-info.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/FinalizableWeakReference.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/Resources.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Objects.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/Subscribe.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/LittleEndianDataInputStream.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/AsyncEventBus.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/LineReader.java  
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jar/com/google/common/eventbus/AllowConcurrentEvents.java  
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jar/com/google/common/primitives/Primitives.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/Interners.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/Files.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
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jar/com/google/common/base/Suppliers.java  
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jar/com/google/common/base/FinalizablePhantomReference.java  
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jar/com/google/common/io/CountingOutputStream.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/base/Function.java  
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jar/com/google/common/base/FinalizableReferenceQueue.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
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info.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/io/Flushables.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/collect/HashBiMap.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/Defaults.java
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```
*/
```

```
/**
```

```
* Outer class that exists solely to let us write { @code Partially.GwtIncompatible } instead of plain
* { @code GwtIncompatible }. This is more accurate for { @link Futures#catching }, which is available
* under GWT but with a slightly different signature.
```

```
*
```

```
* <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler wouldn't recognize
* it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/Partially.java
```

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```

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/ImmutableSupplier.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/JdkBackedImmutableSet.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/JdkBackedImmutableMultiset.java  
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Found in path(s):

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/SubscriberRegistry.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ListenerCallQueue.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/math/Quantiles.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/Subscriber.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/Dispatcher.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java



\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/MoreObjects.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/JdkBackedImmutableBiMap.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/BaseImmutableMultimap.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/IndexedImmutableSet.java

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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SortedMultiset.java  
\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SortedMultisets.java  
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\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Verify.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/HashingInputStream.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Utf8.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/VerifyException.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/SubscriberExceptionContext.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/SubscriberExceptionHandler.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/CharSequenceReader.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractTable.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/FilteredMultimapValues.java

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jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/Strings.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/net/package-
info.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
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jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/AbstractSequentialIterator.java
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jar/com/google/common/collect/Streams.java

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jar/com/google/common/util/concurrent/ForwardingCondition.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/primitives/ImmutableLongArray.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/hash/AbstractHashFunction.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/primitives/ImmutableIntArray.java

\* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-  
jar/com/google/common/util/concurrent/ForwardingLock.java

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jar/com/google/common/primitives/ImmutableDoubleArray.java

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- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/Striped64.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/LongAdder.java

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- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RegularImmutableSortedMultiset.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/RangeSet.java
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- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/GeneralRange.java
- \* /opt/cola/permits/1110923413\_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractRangeSet.java
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jar/com/google/common/collect/Count.java

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# 1.423 rack 2.0.1

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# 1.424 decorator 3.4.0

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```

Found in path(s):

```
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/src/decorator.py
```

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try:

```
    from setuptools import setup
except ImportError:
    from distutils.core import setup
import os.path
```

def getversion(fname):

```
    """Get the __version__ reading the file: works both in Python 2.X and 3.X,
    whereas direct importing would break in Python 3.X with a syntax error"""
```

```
    for line in open(fname):
```

```
        if line.startswith('__version__'):
```

```
            return eval(line[13:])
```

```
    raise NameError('Missing __version__ in decorator.py')
```

VERSION = getversion(

```
    os.path.join(os.path.dirname(__file__), 'src/decorator.py'))
```

if \_\_name\_\_ == '\_\_main\_\_':

```
    setup(name='decorator',
```

```
          version=VERSION,
```

```
          description='Better living through Python with decorators',
```

```
          long_description=open('README.txt').read(),
```

```
author='Michele Simionato',
author_email='michele.simionato@gmail.com',
url='http://pypi.python.org/pypi/decorator',
license="BSD License",
package_dir = {'': 'src'},
py_modules = ['decorator'],
keywords="decorators generic utility",
platforms=["All"],
classifiers=['Development Status :: 5 - Production/Stable',
             'Intended Audience :: Developers',
             'License :: OSI Approved :: BSD License',
             'Natural Language :: English',
             'Operating System :: OS Independent',
             'Programming Language :: Python',
             'Programming Language :: Python :: 3',
             'Topic :: Software Development :: Libraries',
             'Topic :: Utilities'],
use_2to3=True,
zip_safe=False)
```

Found in path(s):

```
* /opt/cola/permits/1154644470_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/setup.py
```

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Decorator module

=====

```
:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
:Download page: http://pypi.python.org/pypi/decorator
:Installation: ``easy_install decorator``
:License: BSD license
```

Installation

-----

If you are lazy, just perform

```
$ easy_install decorator
```

which will install just the module on your system. Notice that Python 3 requires the easy\_install version of the distribute\_ project.

If you prefer to install the full distribution from source, including the documentation, download the tarball\_, unpack it and run

```
$ python setup.py install
```

in the main directory, possibly as superuser.

```
.. _tarball: http://pypi.python.org/pypi/decorator  
.. _distribute: http://packages.python.org/distribute/
```

Testing

-----

For Python 2.5, 2.6, 2.7 run

```
$ python documentation.py
```

for Python 3.X run

```
$ python documentation3.py
```

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.\_\_repr\_\_ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions  $\geq 2.4$  in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

Documentation

-----

There are various versions of the documentation:

- `HTML version (Python 2)` \_
- `PDF version (Python 2)` \_
  
- `HTML version (Python 3)` \_
- `PDF version (Python 3)` \_

```
.. _HTML version (Python 2): http://micheles.googlecode.com/hg/decorator/documentation.html  
.. _PDF version (Python 2): http://micheles.googlecode.com/hg/decorator/documentation.pdf  
.. _HTML version (Python 3): http://micheles.googlecode.com/hg/decorator/documentation3.html  
.. _PDF version (Python 3): http://micheles.googlecode.com/hg/decorator/documentation3.pdf
```

## Repository

-----

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

<http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator>

Found in path(s):

\* /opt/cola/permits/1154644470\_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/README.txt

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Metadata-Version: 1.1

Name: decorator

Version: 3.4.0

Summary: Better living through Python with decorators

Home-page: <http://pypi.python.org/pypi/decorator>

Author: Michele Simionato

Author-email: [michele.simionato@gmail.com](mailto:michele.simionato@gmail.com)

License: BSD License

Description: Decorator module

=====

:Author: Michele Simionato

:E-mail: [michele.simionato@gmail.com](mailto:michele.simionato@gmail.com)

:Requires: Python 2.4+

:Download page: <http://pypi.python.org/pypi/decorator>

:Installation: ``easy\_install decorator``

:License: BSD license

## Installation

-----

If you are lazy, just perform

```
$ easy_install decorator
```

which will install just the module on your system. Notice that Python 3 requires the easy\_install version of the distribute\_ project.

If you prefer to install the full distribution from source, including the documentation, download the tarball\_, unpack it and run

```
$ python setup.py install
```

in the main directory, possibly as superuser.

.. \_tarball: <http://pypi.python.org/pypi/decorator>  
.. \_distribute: <http://packages.python.org/distribute/>

## Testing

-----

For Python 2.5, 2.6, 2.7 run

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```

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```
$ python documentation3.py
```

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You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions  $\geq 2.4$  in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.

Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

## Documentation

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- `HTML version (Python 3)` \_
- `PDF version (Python 3)` \_

.. \_HTML version (Python 2): <http://micheles.googlecode.com/hg/decorator/documentation.html>  
.. \_PDF version (Python 2): <http://micheles.googlecode.com/hg/decorator/documentation.pdf>  
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## Repository

-----

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

<http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator>

Keywords: decorators generic utility  
Platform: All  
Classifier: Development Status :: 5 - Production/Stable  
Classifier: Intended Audience :: Developers  
Classifier: License :: OSI Approved :: BSD License  
Classifier: Natural Language :: English  
Classifier: Operating System :: OS Independent  
Classifier: Programming Language :: Python  
Classifier: Programming Language :: Python :: 3  
Classifier: Topic :: Software Development :: Libraries  
Classifier: Topic :: Utilities

Found in path(s):

\* /opt/cola/permits/1154644470\_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/src/decorator.egg-info/PKG-INFO

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\* /opt/cola/permits/1154644470\_1618870926.16/0/decorator-3-4-0-1-tar-gz/decorator-3.4.0/documentation3.py

## 1.425 log4j-slf4j-impl 2.17.1

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## 1.426 protobuf-java 3.14.0

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Found in path(s):

```
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-  
jar/com/google/protobuf/LazyStringList.java  
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-  
jar/com/google/protobuf/RpcCallback.java  
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-jar/google/protobuf/wrappers.proto  
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-  
jar/com/google/protobuf/RepeatedFieldBuilderV3.java  
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-  
jar/com/google/protobuf/Message.java  
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-  
jar/com/google/protobuf/RawMessageInfo.java  
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-  
jar/com/google/protobuf/ProtocolStringList.java  
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/Utf8.java  
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-jar/google/protobuf/type.proto  
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-  
jar/com/google/protobuf/CodedOutputStream.java  
* /opt/cola/permits/1127748132_1611862246.14/0/protobuf-java-3-14-0-sources-  
jar/com/google/protobuf/BufferAllocator.java
```

\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/ServiceException.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/MessageInfoFactory.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/UnknownFieldSetSchema.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/WireFormat.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/BlockingRpcChannel.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/ExtensionRegistry.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/Service.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/MapFieldSchemaLite.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/CodedInputStreamReader.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/IterableByteBufferInputStream.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/google/protobuf/duration.proto  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/GeneratedMessageLite.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/MessageLiteToString.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/Writer.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/MapField.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/LongArrayList.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/ProtocolMessageEnum.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/TextFormatParseLocation.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/BooleanArrayList.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/BinaryWriter.java  
\* /opt/cola/permits/1127748132\_1611862246.14/0/protobuf-java-3-14-0-sources-jar/com/google/protobuf/SmallSortedMap.java  
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jar/com/google/protobuf/StructuralMessageInfo.java  
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jar/com/google/protobuf/Schema.java

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# 1.428 opensaml-profile-impl 3.4.5

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jar/org/opensaml/profile/action/impl/PopulateSignatureValidationParameters.java
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jar/org/opensaml/profile/action/impl/package-info.java
* /opt/ws_local/PERMITS_SQL/1062753146_1592843760.74/0/opensaml-profile-impl-3-4-5-sources-
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```
jar/org/opensaml/profile/action/impl/SetProfileId.java
* /opt/ws_local/PERMITS_SQL/1062753146_1592843760.74/0/opensaml-profile-impl-3-4-5-sources-
jar/org/opensaml/profile/action/impl/CheckAccess.java
* /opt/ws_local/PERMITS_SQL/1062753146_1592843760.74/0/opensaml-profile-impl-3-4-5-sources-
jar/org/opensaml/profile/action/impl/DecodeMessage.java
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jar/org/opensaml/profile/action/impl/AbstractMessageChannelSecurity.java
* /opt/ws_local/PERMITS_SQL/1062753146_1592843760.74/0/opensaml-profile-impl-3-4-5-sources-
jar/org/opensaml/profile/action/impl/HttpServletRequestMessageChannelSecurity.java
* /opt/ws_local/PERMITS_SQL/1062753146_1592843760.74/0/opensaml-profile-impl-3-4-5-sources-
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*/
/** Message channel confidentiality flag. */
/**
* Get whether message channel confidentiality is active.
*
* @return Returns the confidentialityActive.
*/
/**
* Set whether message channel confidentiality is active.
*
* @param flag The confidentialityActive to set.
*/
```



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# 1.429 jna 4.0.0

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## 1.430 coreutils 8.22-24.el7\_9.2

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

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## 1.447 packaging 16.8

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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.]

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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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(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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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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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 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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 */
// Try the OpenJDK's proprietary implementation.
```

Found in path(s):

```
*/opt/cola/permits/1337088334_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-
jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
```

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```

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```
*/opt/cola/permits/1337088334_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-
```

jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java

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jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-

jar/io/netty/handler/traffic/package-info.java

\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-

jar/io/netty/handler/traffic/TrafficCounter.java

\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-

jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

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jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslPrivateKey.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslSession.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java  
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\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/PemX509Certificate.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java

\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/flow/package-info.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslCertificateException.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/flush/FlushConsolidationHandler.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/PemPrivateKey.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/DelegatingSslContext.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/PemValue.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/PemEncoded.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/flush/package-info.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/Java8SslUtils.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java  
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jar/io/netty/handler/ssl/SslContextBuilder.java  
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jar/io/netty/handler/ssl/ApplicationProtocolNames.java  
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jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java  
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jar/io/netty/handler/ssl/ClientAuth.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-  
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java  
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jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java  
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jar/io/netty/handler/ssl/OpenSslContext.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-  
jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-  
jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-  
jar/io/netty/handler/ssl/SniHandler.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-  
jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-  
jar/io/netty/handler/ssl/util/LazyX509Certificate.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-  
jar/io/netty/handler/ssl/SslUtils.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-  
jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-  
jar/io/netty/handler/ssl/OpenSslSessionContext.java

\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ipfilter/UniqueIpFilter.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/Java7SslParametersUtils.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslEngineMap.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSsl.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/JdkSslContext.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/JdkSslServerContext.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslEngine.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ipfilter/IpFilterRuleType.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslServerContext.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/JettyNpnSslEngine.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ipfilter/IpFilterRule.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java  
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\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
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\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java

\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/CipherSuiteFilter.java  
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\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java  
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\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/CipherSuiteConverter.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OpenSslClientContext.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java

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\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/SslMasterKeyHandler.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/PseudoRandomFunction.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java  
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\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/AbstractSniHandler.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java



\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/Conscrypt.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/SniCompletionEvent.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/ocsp/package-info.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/SslClientHelloHandler.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/OptionalSslHandler.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/SslCompletionEvent.java  
\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java  
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\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/AsyncRunnable.java

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\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-

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jar/io/netty/handler/ssl/Ciphers.java
* /opt/cola/permits/1337088334_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
* /opt/cola/permits/1337088334_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-
jar/io/netty/handler/ssl/OpenSslSessionId.java
* /opt/cola/permits/1337088334_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
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jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1337088334_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-
jar/io/netty/handler/ipfilter/IpSubnetFilter.java
* /opt/cola/permits/1337088334_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-
jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/1337088334_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
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jar/io/netty/handler/address/ResolveAddressHandler.java
* /opt/cola/permits/1337088334_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-
jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /opt/cola/permits/1337088334_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-
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\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/pcap/PcapWriter.java  
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\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/package-info.java  
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\* /opt/cola/permits/1337088334\_1654119789.540263/0/netty-handler-4-1-66-final-sources-1-jar/io/netty/handler/ssl/NotSslRecordException.java  
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/**  
 * Constructs a new {@link SerialVersionUIDAdder}. Subclasses must not use this  
 * constructor. Instead, they must use the {@link #SerialVersionUIDAdder(int, ClassVisitor)}  
 * version.  
 *  
 * @param classVisitor a {@link ClassVisitor} to which this visitor will delegate calls.  
 * @throws IllegalStateException If a subclass calls this constructor.  
 */
```

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\* /opt/cola/permits/1135935692\_1613638422.89/0/asm-commons-7-2-sources-4-  
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* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/MethodRemapper.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/StaticInitMerger.java
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jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
jar/org/objectweb/asm/commons/AnnotationRemapper.java
```

```
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-  
jar/org/objectweb/asm/commons/Remapper.java
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 * Constructs a new { @link GeneratorAdapter}. <i>Subclasses must not use this constructor</i>.  
 * Instead, they must use the { @link #GeneratorAdapter(int, MethodVisitor, int, String, String)}  
 * version.  
 *  
 * @param methodVisitor the method visitor to which this adapter delegates calls.  
 * @param access the method's access flags (see { @link Opcodes}).  
 * @param name the method's name.  
 * @param descriptor the method's descriptor (see { @link Type}).  
 * @throws IllegalStateException if a subclass calls this constructor.  
 */
```

Found in path(s):

```
* /opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-  
jar/org/objectweb/asm/commons/GeneratorAdapter.java
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/**  
 * Constructs a new { @link LocalVariablesSorter}. <i>Subclasses must not use this constructor</i>.  
 * Instead, they must use the { @link #LocalVariablesSorter(int, int, String, MethodVisitor)}  
 * version.  
 *  
 */
```

- \* @param access access flags of the adapted method.
- \* @param descriptor the method's descriptor (see { @link Type}).
- \* @param methodVisitor the method visitor to which this adapter delegates calls.
- \* @throws IllegalStateException if a subclass calls this constructor.

\*/

Found in path(s):

\*/opt/cola/permits/1135935692\_1613638422.89/0/asm-commons-7-2-sources-4-jar/org/objectweb/asm/commons/LocalVariablesSorter.java

# 1.460 kexec-tools 2.0.15-51.el7

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## 1.461 ip-address 0.8.3

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# 1.462 rsyslog 8.24.0

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## 1.465 reindex-client 7.16.3

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# 1.470 patch 2.7.1-12.el7\_7

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#### Source Files

-----

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from

<http://www.ijs.si/software/snprintf/> .

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at <http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z> .

src/preproc/grn/gprint.h

src/preproc/grn/hdb.cpp  
src/preproc/grn/hgraph.cpp  
src/preproc/grn/hpoint.cpp  
src/preproc/grn/main.cpp

. The `gxditview` output device. It is based on X11's `xditview` program and thus has the X license.

src/devices/xditview/DESC.in  
src/devices/xditview/Dvi.c  
src/devices/xditview/Dvi.h  
src/devices/xditview/DviP.h  
src/devices/xditview/FontMap  
src/devices/xditview/GXditview.ad  
src/devices/xditview/Menu.h  
src/devices/xditview/ad2c  
src/devices/xditview/device.c  
src/devices/xditview/device.h  
src/devices/xditview/draw.c  
src/devices/xditview/font.c  
src/devices/xditview/gray1.bm  
src/devices/xditview/gray2.bm  
src/devices/xditview/gray3.bm  
src/devices/xditview/gray4.bm  
src/devices/xditview/gray5.bm  
src/devices/xditview/gray6.bm  
src/devices/xditview/gray7.bm  
src/devices/xditview/gray8.bm  
src/devices/xditview/gxditview.man  
src/devices/xditview/lex.c  
src/devices/xditview/page.c  
src/devices/xditview/parse.c  
src/devices/xditview/xdit.bm  
src/devices/xditview/xdit\_mask.bm  
src/devices/xditview/xditview.c

src/include/DviChar.h  
src/include/XFontName.h

src/libs/libxutil/DviChar.c  
src/libs/libxutil/XFontName.c

## Macro Packages

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. The -mdoc macro set, using the BSD license.

tmac/doc.tmac  
tmac/doc-old.tmac  
tmac/doc-common  
tmac/doc-ditroff  
tmac/doc-nroff  
tmac/doc-syms  
tmac/groff\_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac  
tmac/groff\_me.man  
doc/meintro.me  
doc/meref.me

## Hyphenation Patterns

-----

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

<ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex> .

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same

patterns as the files ``dehyphn.tex'` and ``dehypht.tex'` (for TeX), which can be found at

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. The file ``tmac/hyphenex.det'` is identical to the file ``dehyphtex.tex'`, which can be found at

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. The file ``tmac/hyphen.cs'` contains the same patterns as the file ``czhyphen.tex'` (for TeX), which can be found in the archive

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## 1.483 accessors-smart 2.4.2

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Manifest-Version: 1.0

Bnd-LastModified: 1617553114265

Build-Jdk: 11.0.9.1

Built-By: uriel

Bundle-Description: Java reflect give poor performance on getter setter  
r an constructor calls, accessors-smart use ASM to speed up those calls.

Bundle-DocURL: <https://urielch.github.io/>

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

Bundle-ManifestVersion: 2

Bundle-Name: accessors-smart

Bundle-SymbolicName: net.minidev.accessors-smart

Bundle-Vendor: Chemouni Uriel

Bundle-Version: 2.4.2

Created-By: Apache Maven Bundle Plugin

Export-Package: net.minidev.asm;uses:="org.objectweb.asm";version="2.4.2",net.minidev.asm.ex;version="2.4.2"

Import-Package: net.minidev.asm.ex,org.objectweb.asm;version="[8.0,9)"

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

Tool: Bnd-3.5.0.201709291849

Found in path(s):

\* /opt/cola/permits/1185889281\_1627998250.94/0/accessors-smart-2-4-2-jar/META-INF/MANIFEST.MF

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```

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```
* /opt/cola/permits/1185889281_1627998250.94/0/accessors-smart-2-4-2-jar/META-  
INF/maven/net.minidev/accessors-smart/pom.xml
```

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jar/org/opensaml/messaging/handler/impl/CheckMandatoryIssuer.java
* /opt/ws_local/PERMITS_SQL/1062753067_1592843877.9/0/opensaml-messaging-impl-3-4-5-sources-
jar/org/opensaml/messaging/handler/impl/CheckMandatoryAuthentication.java
* /opt/ws_local/PERMITS_SQL/1062753067_1592843877.9/0/opensaml-messaging-impl-3-4-5-sources-
jar/org/opensaml/messaging/handler/impl/URLEvaluatingMessageChannelSecurity.java
* /opt/ws_local/PERMITS_SQL/1062753067_1592843877.9/0/opensaml-messaging-impl-3-4-5-sources-
jar/org/opensaml/messaging/handler/impl/MessageHandlerErrorStrategyAdapter.java
```

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

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```

```
*/
```

```
/** Message channel confidentiality flag. */
```

```
/**
```

```
 * Get whether message channel confidentiality is active.
```

```
 *
```

```
 * @return Returns the confidentialityActive.
```

```
 */
```

```
/**
```

```
 * Set whether message channel confidentiality is active.
```

```
 *
```

```
 * @param flag The confidentialityActive to set.
```

```
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1062753067_1592843877.9/0/opensaml-messaging-impl-3-4-5-sources-
jar/org/opensaml/messaging/handler/impl/StaticMessageChannelSecurity.java
```

# 1.489 net-tools 2.0 0.25.20131004git.el7

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## 1.491 six 1.9.0

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## 1.494 ncurses 6.2

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

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Ty Coon, President of Vice
```

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## 1.499 oauth2-oidc-sdk 9.3.1

### 1.499.1 Available under license :

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```
/*
 * oauth2-oidc-sdk
 *
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 */
/**
 * Authorisation code. Client authentication required only for
 * confidential clients.
 */
/**
 * Refresh token. Client authentication required only for confidential
 * clients.
 */
/**
 * Password. Client authentication required only for confidential
 * clients.
 */
```

Found in path(s):

```
*/opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/GrantType.java
```

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```
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 * oauth2-oidc-sdk
 *
```

```

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* specific language governing permissions and limitations under the License.
*/
/**
* OpenID Connect client information. Encapsulates the registration and
* metadata details of an OpenID Connect client:
*
* <ul>
* <li>The client identifier.
* <li>The client OpenID Connect metadata.
* <li>The optional client secret for a confidential client.
* <li>The optional registration URI and access token if dynamic client
* registration is permitted.
* </ul>
*
* <p>Related specifications:
*
* <ul>
* <li>OpenID Connect Dynamic Client Registration 1.0.
* <li>OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591), section
* 3.2.1.
* <li>OAuth 2.0 Dynamic Client Registration Management Protocol (RFC
* 7592), section 3.
* </ul>
*/

```

Found in path(s):

```

* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientInformation.java

```

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```

* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/META-
INF/maven/com.nimbusds/oauth2-oidc-sdk/pom.xml

```

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 */
```

Found in path(s):

```
*/opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/validators/BadJWTExceptions.java
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```

```
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 * oauth2-oidc-sdk
 *
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 * under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
 * CONDITIONS OF ANY KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations under the License.
 */
```

```
/**
 * Creates a new authenticated pushed authorisation request for a
 * confidential client.
 *
 * @param uri The URI of the token endpoint. May be
 *             { @code null } if the { @link #toHttpRequest }
 *             method will not be used.
 * @param clientAuth The client authentication. Must not be
 *                   { @code null }.
 * @param authzRequest The authorisation request. Must not be
```

\* { @code null }.

\*/

Found in path(s):

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/PushedAuthorizationRequest.java

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\*/

/\*\*

\* Creates a new request object POST request where the parameters are

\* submitted as plain JSON object, and the client authenticates by

\* means of mutual TLS. TLS also ensures the integrity and

\* confidentiality of the request parameters. This method is not

\* standard.

\*

\* @param uri The URI of the request object endpoint. May

\* be { @code null } if the

\* { @link #toHttpRequest } method will not be

\* used.

\* @param tlsClientAuth The mutual TLS client authentication. Must

\* not be { @code null }.

\* @param requestJSONObject The request parameters as plain JSON

\* object. Must not be { @code null }.

\*/

Found in path(s):

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTRequest.java

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\*/

Found in path(s):

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/oauth2/sdk/auth/verifier/Context.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/oauth2/sdk/client/ClientUpdateRequest.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/oauth2/sdk/auth/ClientSecretPost.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/oauth2/sdk/device/DeviceCodeGrant.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IDDocumentType.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/oauth2/sdk/ciba/CIBAResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/openid/connect/sdk/id/HashBasedPairwiseSubjectCodec.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/oauth2/sdk/jarm/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/openid/connect/sdk/OIDCTokenResponseParser.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/openid/connect/sdk/claims/ACR.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/oauth2/sdk/auth/Secret.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/openid/connect/sdk/claims/AggregatedClaims.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/openid/connect/sdk/id/SectorIDURIV validator.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/openid/connect/sdk/claims/ClaimType.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/secevent/sdk/claims/TXN.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/oauth2/sdk/http/ServletUtils.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/TokenIntrospectionRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/id/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/PolicyFormulationException.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/ClientAuthentication.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/ClientAuthenticationVerifier.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/id/JWTID.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/URIUtils.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/as/AuthorizationServerEndpointMetadata.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/as/AuthorizationServerMetadata.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientRegistrationRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2Utils.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/JWTAuthentication.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ResourceOwnerPasswordCredentialsGrant.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AuthorizationRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/FederationEntityMetadata.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/op/AuthenticationRequestDetector.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/device/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AbstractAuthenticatedRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/tls/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/pkce/CodeChallengeMethod.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/client/ClientInformationResponse.java



\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/JSONUtils.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/ClientX509CertificateBindingVerifier.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IDDocumentEvidence.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/CollectionUtils.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/assertions/AssertionDetails.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/AuthenticationRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/id/SoftwareID.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/device/UserCode.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IdentityVerificationMethod.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/URLUtils.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/validators/LogoutTokenValidator.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/assertions/saml2/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/id/AuthorizedParty.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/client/ClientRegistrationResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AuthorizationCodeGrant.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/token/OIDCTokens.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/validators/StateValidator.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AssertionGrant.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/ExternalClaimsUtils.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AbstractConfigurationRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/assertions/jwt/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/token/RefreshToken.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/PKIClientX509CertificateBindingVerifier.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBAErroResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/OIDCResponseTypeValidator.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/PushedAuthorizationSuccessResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/ClaimsTransport.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/Nonce.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/validators/IDTokenClaimsVerifier.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/OIDCResponseTypeValue.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/OAuth2Error.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/IdentityVerification.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/AuthenticationResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2AssertionDetailsVerifier.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/AddOperation.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/claims/Birthplace.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/JSONArrayUtils.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/validators/AuthorizationCodeValidator.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/client/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/PrivateKeyJWT.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/op/OIDCProviderEndpointMetadata.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/ValueOperation.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/TokenErrorResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/token/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/CodeHash.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/client/RegistrationError.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/X509CertificateUtils.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/TokenResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/PlainClientSecret.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/Utils.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AbstractOptionallyIdentifiedRequest.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/jose/SecretKeyDerivation.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/DefaultOperation.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/RefreshTokenGrant.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientUpdateRequest.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/OneOfOperation.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/op/OIDCProviderMetadata.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ErrorResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatementClaimsSet.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IdentityEvidenceType.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/AuthorizedParty.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/Gender.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/id/SoftwareVersion.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/DefaultPolicyOperationFactory.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/assertions/jwt/JWTAssertionFactory.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/pkce/CodeChallenge.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/rp/ApplicationType.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/jose/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/TokenIntrospectionResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/PersonClaims.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/claims/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/ClientSecretBasic.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/StringOperation.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ErrorObject.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/jarm/JARMValidator.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/OIDCScopeValue.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/validators/LogoutTokenClaimsVerifier.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/claims/ISO3166\_1Alpha2CountryCode.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyConfiguration.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/SuccessResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/tls/TLSVersion.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/id/SIVAESBasedPairwiseSubjectCodec.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/OrderedJSONObject.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/ExternalClaims.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/AuthenticationSuccessResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/OIDCTokenResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/Role.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/token/TypelessAccessToken.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/id/Actor.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/LogoutTokenClaimsSet.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/token/BearerTokenError.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/IDTokenClaimsSet.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/assertions/saml2/BadSAML2AssertionException.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientInformationResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/Prompt.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/AuthenticationErrorResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/rp/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyViolationException.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ParseException.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2AssertionFactory.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/JWTAuthenticationClaimsSetVerifier.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/BackChannelLogoutRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/jarm/JARMClaimsVerifier.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/validators/AbstractJWTValidator.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/TokenIntrospectionSuccessResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/claims/VerifiedClaimsSet.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AuthorizationSuccessResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/Hint.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/as/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/TokenIntrospectionErrorResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/id/Issuer.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ClientCredentialsGrant.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/op/ResolveException.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientRegistrationResponseParser.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/id/ClientID.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/ClaimsSet.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AuthorizationGrant.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/pkce/CodeVerifier.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/validators/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ResponseMode.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/ClaimsRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/validators/InvalidHashException.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ciba/BackChannelTokenDeliveryMode.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/UserInfoErrorResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IdentityEvidence.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/id/Identifier.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/Response.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/token/AccessToken.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/UntypedOperation.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IdentityVerifier.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/op/AuthenticationRequestResolver.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientMetadata.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTErrorResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/http/HTTPMessage.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/client/ClientRegistrationErrorResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyOperation.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/client/ClientRegistrationRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/TokenRequest.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/OIDCError.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/AccessTokenHash.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/DistributedClaims.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBAResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/client/ClientDeleteRequest.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/tls/TLSUtils.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/SubsetOfOperation.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/config/FederationEntityConfigurationResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/ClientCredentialsSelector.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/AuthenticationResponseParser.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/token/Token.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/IdentityTrustFramework.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/claims/CountryCode.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/BooleanConfiguration.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2AssertionValidator.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/token/BearerAccessToken.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/StringUtils.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/config/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/assertions/jwt/JWTAssertionDetailsVerifier.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/MultivaluedMapUtils.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/EssentialOperation.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/token/Tokens.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/assertions/saml2/SAML2AssertionDetails.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/StateHash.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/http/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/marks/TrustMarkClaimsSet.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/config/FederationEntityConfigurationRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/VerificationProcess.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/AMR.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/PKITLSClientAuthentication.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/id/InvalidPairwiseSubjectException.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/ResourceUtils.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/ClientSecretJWT.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/Scope.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/http/HTTPRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/AbstractSetBasedOperation.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/Request.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/UserInfoSuccessResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/SessionID.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/op/OIDCProviderConfigurationRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/OperationName.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/StringConfiguration.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/MapUtils.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/InvalidClientException.java



\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AuthorizationErrorResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/id/Audience.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/as/AuthorizationServerConfigurationRequest.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/JWTClaimsSetUtils.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/ClientAuthenticationMethod.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AbstractRequest.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/config/FederationEntityConfigurationErrorResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTSuccessResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/X509CertificateConfirmation.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/http/HTTPResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ProtectedResourceRequest.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/date/DateWithTimeZoneOffset.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/validators/AccessTokenValidator.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBAGrant.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/UserInfoResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/Message.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/SupersetOfOperation.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/SAML2BearerGrant.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/UtilityBillEvidence.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/Display.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/token/AccessTokenType.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/token/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/validators/IDTokenValidator.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/PushedAuthorizationErrorResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/HashClaim.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/SubjectType.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityID.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/SelfSignedTLSClientAuthentication.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationErrorResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/token/TokenEncoding.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationGrantError.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/LogoutRequest.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/NumberConfiguration.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/assertions/jwt/JWTAssertionDetails.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ResponseType.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/client/ClientCredentialsParser.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AccessTokenResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/assertions/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/op/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/BooleanOperation.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/id/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/GeneralException.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/date/SimpleDate.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/id/PairwiseSubjectCodec.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/CommonOIDCTokenClaimsSet.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/id/SectorID.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AuthorizationResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/client/ClientMetadata.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/id/Subject.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/TLSClientAuthentication.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/pkce/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/QESEvidence.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/JWTAuthenticationClaimsSet.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AuthorizationCode.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/StringListConfiguration.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/UserInfo.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/StringListOperation.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IDDocumentDescription.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/JSONObjectUtils.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/Address.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/op/ACRRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/AbstractOptionallyAuthenticatedRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/UserInfoRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/ClaimRequirement.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/device/DeviceCode.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/JWTBearerGrant.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/id/State.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/jarm/JARMUtils.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/SerializeException.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/config/FederationEntityConfigurationSuccessResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/CommonClaimsSet.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/client/ClientReadRequest.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/http/HTTPEndpoint.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/ContentTypeUtils.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/date/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/secevent/sdk/claims/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/device/DeviceAuthorizationSuccessResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/PushedAuthorizationResponse.java

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```
/*
 * oauth2-oidc-sdk
 *
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 * under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
 * CONDITIONS OF ANY KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations under the License.
 */
/**
 * Token revocation request. Used to revoke an issued access or refresh token.
 *
 * <p>Example token revocation request for a confidential client:
 *
 * <pre>
 * POST /revoke HTTP/1.1
 * Host: server.example.com
 * Content-Type: application/x-www-form-urlencoded
 * Authorization: Basic czZCaGRSa3F0MzpnWDFmQmF0M2JW
 *
 * token=45ghiukldjahdnhdauz&token_type_hint=refresh_token
 * </pre>
 */
```

```

* <p>Example token revocation request for a public client:
*
* <pre>
* POST /revoke HTTP/1.1
* Host: server.example.com
* Content-Type: application/x-www-form-urlencoded
*
* token=45ghiukldjahdnhzdauz&amp;token_type_hint=refresh_token&amp;client_id=123456
* </pre>

```

```

* <p>Related specifications:

```

```

* <ul>
*   <li>OAuth 2.0 Token Revocation (RFC 7009), section 2.1.
* </ul>

```

```

*/
/**

```

```

* Creates a new token revocation request for a confidential client.

```

```

* @param uri      The URI of the token revocation endpoint. May be
*                 { @code null } if the { @link #toHTTPRequest } method
*                 will not be used.

```

```

* @param clientAuth The client authentication. Must not be
*                 { @code null }.

```

```

* @param token    The access or refresh token to revoke. Must not be
*                 { @code null }.

```

```

*/
// confidential client

```

```

Found in path(s):

```

```

* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/TokenRevocationRequest.java

```

```

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```

```

/*

```

```

* oauth2-oidc-sdk

```

```

*

```

```

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```

```

*

```

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Found in path(s):

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBATokenDelivery.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/util/ListUtils.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBASignedRequestClaimsSet.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBARequestAcknowledgement.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBAError.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBAPingCallback.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBAErrorDelivery.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ciba/CIBAPushCallback.java

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\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/EntityStatementRetriever.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainRetriever.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/DefaultEntityStatementRetriever.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/rp/statement/InvalidSoftwareStatementException.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/PolicyOperationFactory.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/rp/statement/SoftwareStatementProcessor.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/FederationMetadataType.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainSet.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/registration/ExplicitClientRegistrationRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChain.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/EntityMetadataValidator.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/OIDCClaimsRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/marks/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/registration/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/dpop/DefaultDPoPJWTFactory.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/ClaimsSetRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/rp/statement/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/package-info.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementRequest.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/language/PolicyOperationApplication.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/PolicyOperationCombinationValidator.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/dpop/DPoPJWTFactory.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/RPMetadataPolicyFactory.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/op/EndpointName.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ciba/AuthRequestID.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementErrorResponse.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/EntityIDConstraint.java

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationRequest.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatement.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingSuccessResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/TrustChainResolver.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/DefaultTrustChainRetriever.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/factories/DefaultRPMetadataPolicyFactory.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/dpop/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/ResolveException.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/dpop/DPoPUtls.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/InvalidEntityMetadataException.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/ConfigurationType.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/TrustChainConstraints.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FederationAPIRequest.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/MetadataPolicy.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationSuccessResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingResponse.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/SubtreeEntityIDConstraint.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/ExactMatchEntityIDConstraint.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/ciba/package-info.java  
\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/TrustNegotiationErrorResponse.java



```
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/policy/MetadataPolicyEntry.java
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/FederationAPIError.java
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/WellKnownPathComposeStrategy.java
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingRequest.java
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityRole.java
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/OperationType.java
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/registration/ClientRegistrationType.java
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingErrorResponse.java
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingSpec.java
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/DefaultPolicyOperationCombinationValidator.java
va
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/entities/EntityStatementClaimsVerifier.java
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/api/FetchEntityStatementSuccessResponse.java
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/federation/entities/package-info.java
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/openid/connect/sdk/assurance/claims/VerifiedClaimsSetRequest.java
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```

```
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*/
/**
```

\* Confidential. Clients capable of maintaining the confidentiality of  
\* their credentials (e.g., client implemented on a secure server with  
\* restricted access to the client credentials), or capable of secure  
\* client authentication using other means.

\*/

/\*\*

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\* credentials (e.g., clients executing on the device used by the  
\* resource owner, such as an installed native application or a web  
\* browser-based application), and incapable of secure client  
\* authentication via any other means.

\*/

Found in path(s):

\* /opt/cola/permits/1192756271\_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-  
jar/com/nimbusds/oauth2/sdk/client/ClientType.java

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\*/

/\*\*

\* Client information. Encapsulates the registration and metadata details of  
\* an OAuth 2.0 client:

\*

\* <ul>

\* <li>The client identifier.

\* <li>The client metadata.

\* <li>The optional client secret for a confidential client.

\* <li>The optional registration URI and access token if dynamic client  
\* registration is permitted.

\* </ul>

\*

\* <p>Related specifications:

\*

```
* <ul>
* <li>OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591), section
* 3.2.1.
* <li>OAuth 2.0 Dynamic Client Registration Management Protocol (RFC
* 7592), section 3.
* </ul>
*/
// The client must be unambiguously public, else it is marked as confidential
```

Found in path(s):

```
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/client/ClientInformation.java
```

# 1.500 star 1.5.2 13.e17

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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.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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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.

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:

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Default files for the Schily Makefile system (CDDL)  
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Default files for the Schily Makefile system (CDDL)  
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# 1.501 gconf 3.2.6 8.el7

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Version 2, June 1991

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

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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 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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"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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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.

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## 1.502 lucene-analyzers-common 8.10.1

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

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<http://bitbucket.org/jpbarrette/moman/overview/>

The class org.apache.lucene.util.WeakIdentityMap was derived from  
the Apache CXF project and is Apache License 2.0.

The class org.apache.lucene.util.compress.LZ4 is a Java rewrite of the LZ4  
compression library (<https://github.com/lz4/lz4/tree/dev/lib>) that is licensed  
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The Google Code Prettify is Apache License 2.0.  
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JUnit (junit-4.10) is licensed under the Common Public License v. 1.0  
See <http://junit.sourceforge.net/cpl-v10.html>

This product includes code (JaspellTernarySearchTrie) from Java Spelling Checking Package (jaspell): <http://jaspell.sourceforge.net/>

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The snowball stemmers in

`analysis/common/src/java/net/sf/snowball`

were developed by Martin Porter and Richard Boulton.

The snowball stopword lists in

`analysis/common/src/resources/org/apache/lucene/analysis/snowball`

were developed by Martin Porter and Richard Boulton.

The full snowball package is available from

<http://snowball.tartarus.org/>

The KStem stemmer in

`analysis/common/src/org/apache/lucene/analysis/en`

was developed by Bob Krovetz and Sergio Guzman-Lara (CIIR-UMass Amherst) under the BSD-license.

The Arabic, Persian, Romanian, Bulgarian, Hindi and Bengali analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:

`analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,`

`analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,`

`analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,`

`analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,`

`analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,`

`analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt`

See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and

Ljiljana Dolamic. These files reside in:

`analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

The Stempel analyzer (stempel) includes BSD-licensed software developed

by the Egothor project <http://egothor.sf.net/>, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (stempel) comes with a default

stopword list that is BSD-licensed created by the Carrot2 project. The file resides in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.

See <http://project.carrot2.org/license.html>.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by [www.imdict.net](http://www.imdict.net).

WordBreakTestUnicode\_\*.java (under modules/analysis/common/src/test/) is derived from Unicode data such as the Unicode Character Database. See <http://unicode.org/copyright.html> for more details.

The Morfologik analyzer (morfologik) includes BSD-licensed software developed by Dawid Weiss and Marcin Mikowski (<http://morfologik.blogspot.com/>).

Morfologik uses data from Polish ispell/myspell dictionary (<http://www.sjp.pl/slownik/en/>) licenced on the terms of (inter alia) LGPL and Creative Commons ShareAlike.

Morfologic includes data from BSD-licensed dictionary of Polish (SGJP) (<http://sgjp.pl/morfeusz/>)

Servlet-api.jar and javax.servlet-\*.jar are under the CDDL license, the original source code for this can be found at <http://www.eclipse.org/jetty/downloads.php>

=====  
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration  
=====

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

<http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz>

or

<http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz>

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<https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz>

## 1.503 jline-terminal-jna 3.14.1

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* /opt/cola/permits/1258291910_1643053091.75/0/jline-terminal-jna-3-14-1-sources-  
jar/org/jline/terminal/impl/jna/osx/CLibrary.java  
* /opt/cola/permits/1258291910_1643053091.75/0/jline-terminal-jna-3-14-1-sources-  
jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java  
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jar/org/jline/terminal/impl/jna/linux/LinuxNativePty.java  
* /opt/cola/permits/1258291910_1643053091.75/0/jline-terminal-jna-3-14-1-sources-
```

jar/org/jline/terminal/impl/jna/freebsd/CLibrary.java  
\* /opt/cola/permits/1258291910\_1643053091.75/0/jline-terminal-jna-3-14-1-sources-  
jar/org/jline/terminal/impl/jna/win/WindowsAnsiWriter.java  
\* /opt/cola/permits/1258291910\_1643053091.75/0/jline-terminal-jna-3-14-1-sources-  
jar/org/jline/terminal/impl/jna/JnaNativePty.java  
\* /opt/cola/permits/1258291910\_1643053091.75/0/jline-terminal-jna-3-14-1-sources-  
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\* /opt/cola/permits/1258291910\_1643053091.75/0/jline-terminal-jna-3-14-1-sources-  
jar/org/jline/terminal/impl/jna/solaris/SolarisNativePty.java  
\* /opt/cola/permits/1258291910\_1643053091.75/0/jline-terminal-jna-3-14-1-sources-  
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\* /opt/cola/permits/1258291910\_1643053091.75/0/jline-terminal-jna-3-14-1-sources-jar/org/jline/terminal/impl/jna/JnaSupportImpl.java

# 1.504 did-you-mean 1.0.0

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# 1.506 joda-time 2.10.10

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## 1.507 pytz 2016.10

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## 1.508 gtk 2.24.31 1.e17

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# 1.512 elasticsearch-lz4 7.16.3

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## 1.513 aggs-matrix-stats-client 7.16.3

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## 1.515 findutils 4.5.11 6.el7

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## 1.519 elasticsearch-nio 7.16.3

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# 1.520 gstreamer 1.10.4 2.e17

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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.]

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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.

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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(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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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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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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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.

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### Appendix: How to Apply These Terms to Your New Libraries

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```
<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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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!

<sect1 id="chapter-legal">

<title id="title-legal">GStreamer Legal Issues</title>

<para>

This part of the FAQ is based on a series of questions we asked the FSF to understand how the GPL works and how patents affects the GPL. These questions were answered by the <ulink url="http://www.fsf.org/">FSF lawyers</ulink>, so we view them as the final interpretation on how the GPL and LGPL interact with patents in our opinion. This consultancy was paid for by <ulink url="http://www.fluendo.com/">Fluendo</ulink> in order to obtain clear and quotable answers. These answers were certified by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.

</para>

<qandaset defaultlabel="qanda">

<qandaentry>

<question id="legal-distribute-three">

<para>

Can someone distribute the combination of

<itemizedlist>

<listitem><para>GStreamer, the LGPL library</para></listitem>

<listitem><para>MyPlayer, a GPL playback application</para></listitem>

<listitem><para>The binary-only Sorenson decoder</para></listitem>

</itemizedlist>

together in one distribution/operating system ? If not, what needs to be changed to make this possible ?

</para>

</question>

<answer>

<para>

This would be a problem, because the GStreamer and MyPlayer licenses would forbid it. In order to link GStreamer to MyPlayer, you need to use section 3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL license forbids this.

</para>

<para>

If the authors of MyPlayer want to permit this, we have an exception for them: the controlled interface exception from the FAQ.

The idea of this is that you can't get around the GPL just by including a LGPL bit in the middle.

</para>

<para>

Note: MyPlayer is a completely fictitious application at the time of writing.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-binary-plugin">

<para>

Suppose Apple wants to write a binary-only proprietary plugin for GStreamer to decode Sorenson video, which will be shipped stand-alone, not part of a package like in the question above.

Can Apple distribute this binary-only plugin ?

</para>

</question>

<answer>

<para>

Yes, modulo certain reverse engineering requirements in section 6 of the LGPL.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-program">

<para>

If a program released under the GPL uses a library that is LGPL, and this library can dlopen plug-ins at runtime, what are the requirements for the license of the plug-in ?

</para>

</question>

<answer>

<para>

You may not distribute the plug-in with the GPL application. Distributing the plug-in alone, with the knowledge that it will be used primarily by GPL software is a bit of an edge case. We will not advise you that it would be safe to do so, but we also will not advise you that it would be absolutely forbidden.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-safe-countries">

<para>

Can someone in a country that does not have software patents distribute code covered by US patents under the GPL to people in, for example, Norway ? If he/she visits the US, can he/she be arrested ?

</para>

</question>

<answer>

<para>

Yes, he can.

No, there are no criminal penalties for patent infringement in the US.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-unsafe-countries">

<para>

Can someone from the US distribute software covered by US patents under the GPL to people in Norway ? To people in the US ?

</para>

</question>

<answer>

<para>

This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement.

The US government is empowered to refuse importation of patent infringing devices, including software.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-library-patents">

<para>

There are a lot of GPL- or LGPL-licensed libraries that handle media codecs which have patents. Take mad, an mp3 decoding library, as an example. It is licensed under the GPL. In countries where patents are valid, does this invalidate the GPL license for this project ?

</para>

</question>

<answer>

<para>



The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement prevents you from distributing libmad under GPL terms, you can not distribute it at all.

</para>

<para>

The GPL and LGPL say (sections 7 and 11):

<quote>If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all.</quote>

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-court-judgment">

<para>

So let's say there is a court judgement. Does this mean that the GPL license is invalid for the project everywhere, or only in the countries where it conflicts with the applicable patents ?

</para>

</question>

<answer>

<para>

The GPL operates on a per-action, not per-program basis. That is, if you are in a country which has software patents, and a court tells you that you cannot distribute (say) libmad in source code form, then you cannot distribute libmad at all. This doesn't affect anyone else.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-and-binary">

<para>

Patented decoding can be implemented in GStreamer either by having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library.

Does this affect the licensing issues involved in regards to GPL/LGPL?

</para>

</question>

<answer>

<para>

No.

</para>

```
</answer>
</qandaentry>

<qandaentry>
<question id="legal-gpl-patent-distribution">
<para>
Is it correct that you cannot distribute the GPL mad library to
decode mp3's, *even* in the case where you have obtained a valid license
for decoding mp3 ?
</para>
</question>

<answer>
<para>
The only GPL-compatible patent licenses are those which are open to
all parties possessing copies of GPL software which practices the
teachings of the patent.
</para>

<para>
If you take a license which doesn't allow others to distribute
original or modified versions of libmad practicing the same patent
claims as the version you distribute, then you may not distribute at
all.
</para>
</answer>
</qandaentry>
</qandaset>
</sect1>
```

# 1.521 wpa-supPLICANT 2.6 12.e17

## 1.521.1 Available under license :

wpa\_supplicant and hostapd

-----

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## 1.522 jackson-annotations 2.10.4

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## 1.523 concurrentlinkedhashmap-lru 1.4

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```
* /opt/cola/permits/1270821761_1644846727.34/0/concurrentlinkedhashmap-lru-1-4-sources-
jar/com/googlecode/concurrentlinkedhashmap/Weigher.java
* /opt/cola/permits/1270821761_1644846727.34/0/concurrentlinkedhashmap-lru-1-4-sources-
```

jar/com/googlecode/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java  
\* /opt/cola/permits/1270821761\_1644846727.34/0/concurrentlinkedhashmap-lru-1-4-sources-  
jar/com/googlecode/concurrentlinkedhashmap/Weighers.java  
\* /opt/cola/permits/1270821761\_1644846727.34/0/concurrentlinkedhashmap-lru-1-4-sources-  
jar/com/googlecode/concurrentlinkedhashmap/EvictionListener.java  
No license file was found, but licenses were detected in source scan.

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jar/com/googlecode/concurrentlinkedhashmap/EntryWeigher.java  
No license file was found, but licenses were detected in source scan.

```
/*  
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* http://creativecommons.org/publicdomain/zero/1.0/  
*/
```

Found in path(s):

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jar/com/googlecode/concurrentlinkedhashmap/ConcurrentHashMapV8.java  
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- \* /opt/cola/permits/1270821761\_1644846727.34/0/concurrentlinkedhashmap-lru-1-4-sources-jar/com/googlecode/concurrentlinkedhashmap/LinkedDeque.java

## 1.524 giflib 4.1.6-9.el7

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## 1.525 cilium-ebpf 0.0.0-20200702112145-1c8d4c9ef775

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# update-license

This is a small tool that updates the license header for Uber's open source Golang files.

## Installation

---

```
go get go.uber.org/tools/update-license
```

---

## Usage

---

```
update-license go_files...
```

---

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```

```
package main
```

```
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    "MIT": `// Copyright (c) {{.Year}} {{.Owner}}  
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// OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN  
// THE SOFTWARE.`,  
}
```

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tomb - support for clean goroutine termination in Go.

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package api

```
import (  
    "io/ioutil"  
    "strings"  
    "time"  
)
```

```
type License struct {  
    // The unique identifier of the license  
    LicenseID string `json:"license_id"`  
  
    // The customer ID associated with the license  
    CustomerID string `json:"customer_id"`  
  
    // If set, an identifier that should be used to lock the license to a  
    // particular site, cluster, etc.  
    InstallationID string `json:"installation_id"`  
  
    // The time at which the license was issued  
    IssueTime time.Time `json:"issue_time"`
```

```

// The time at which the license starts being valid
StartTime time.Time `json:"start_time"`

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"`

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"`

// The product the license is valid for
Product string `json:"product"`

// License Specific Flags
Flags map[string]interface{} `json:"flags"`

// List of features enabled by the license
Features []string `json:"features"`
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.NewRequest("GET", "/v1/operator/license")
    r.Params.Set("signed", "1")
    r.SetQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer resp.Body.Close()

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {

```

```

return "", err
}

return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
var reply LicenseReply
r := op.c.newRequest("DELETE", "/v1/operator/license")
r.setWriteOptions(opts)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
return nil, err
}
defer resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
return nil, err
}

return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
var reply LicenseReply
r := op.c.newRequest("PUT", "/v1/operator/license")
r.setWriteOptions(opts)
r.body = strings.NewReader(license)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
return nil, err
}
defer resp.Body.Close()

if err := decodeBody(resp, &reply); err != nil {
return nil, err
}

return &reply, nil
}

```

Data model artifacts for Prometheus.

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Go support for Protocol Buffers - Google's data interchange format

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Support for streaming Protocol Buffer messages for the Go language (golang).

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```
import (  
    "encoding/json"
```

```
    "github.com/go-openapi/swagger"
```

```
)
```

```
// License information for the exposed API.
```

```
//
```

```
// For more information: http://goo.gl/8us55a#licenseObject
```

```

type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return swag.ConcatJSON(b1, b2), nil
}

```

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```

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    writerc.go yamlh.go yamlprivateh.go

```

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\* [golang.org/x/mod/module](https://golang.org/x/mod/module) - <https://github.com/golang/mod>

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Gocheck - A rich testing framework for Go

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goproperties - properties file decoder for Go

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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## 1.526 thrift-server 0.3.7

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\* /opt/cola/permits/1270821588\_1644847121.95/0/thrift-server-0-3-7-sources-jar/com/thinkaurelius/thrift/util/ThriftFactories.java

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\* /opt/cola/permits/1270821588\_1644847121.95/0/thrift-server-0-3-7-sources-jar/com/thinkaurelius/thrift/TDisruptorServerMBean.java

## 1.527 kerberos 1.15.1-51.el7\_9

### 1.527.1 Available under license :

/\* -\*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -\*- \*/

/\* tests/s4u2proxy.c - S4U2Proxy test harness \*/

/\*

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\*/

/\*

\* Usage: s4u2proxy evccname targetname

\*

\* evccname contains an evidence ticket. The default ccache contains a TGT for  
\* the intermediate service. The default keytab contains a key for the  
\* intermediate service. An S4U2Proxy request is made to get a ticket from  
\* evccname's default principal to the target service. The resulting cred is  
\* stored in the default ccache.

\*/

/\* -\*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -\*- \*/

/\* tests/shlib/t\_loader.c \*/

/\*

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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```
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
```

```
/* kdc_audit.c - Interface for KDC audit plugins. */
```

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/*
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*/
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/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
```

```
/* tests/pluginorder.c - Test harness to display the order of loaded plugins */
```

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/*
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\*/

/\*  
\* This file registers a few dummy built-in pwqual modules, then prints out the  
\* order of pwqual modules returned by k5\_plugin\_load\_all. The choice of the  
\* pwqual interface is mostly arbitrary; it is an interface which libkrb5  
\* itself doesn't use, for which we have a test module.  
\*/

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```

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*/

/*
* Program to take the place of the configure shell script under DOS.
* The makefile.in files are constructed in such a way that all this
* program needs to do is uncomment lines beginning ##DOS by removing the
* first 5 characters of the line. This will allow lines like:
* ##DOS!include win-pre.in to become: !include win-pre.in
*
* We also turn any line beginning with '@' into a blank line.
*
* If a config directory is specified, then the output will be start with
* config\pre.in, then the filtered stdin text, and will end with
* config\post.in.
*
* Syntax: wconfig [options] [config_directory] <input_file >output_file
*/

```

## 1.528 libx11 1.6.7 2.e17

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* /opt/cola/permits/1132421795_1613177725.98/0/high-scale-lib-1-0-6-sources-2-jar/java/util/concurrent/ConcurrentHashMap.java  
* /opt/cola/permits/1132421795_1613177725.98/0/high-scale-lib-1-0-6-sources-2-jar/org/cliffc/high_scale_lib/NonBlockingHashMapLong.java  
* /opt/cola/permits/1132421795_1613177725.98/0/high-scale-lib-1-0-6-sources-2-jar/org/cliffc/high_scale_lib/Counter.java  
* /opt/cola/permits/1132421795_1613177725.98/0/high-scale-lib-1-0-6-sources-2-jar/org/cliffc/high_scale_lib/ConcurrentAutoTable.java  
* /opt/cola/permits/1132421795_1613177725.98/0/high-scale-lib-1-0-6-sources-2-jar/org/cliffc/high_scale_lib/AbstractEntry.java  
* /opt/cola/permits/1132421795_1613177725.98/0/high-scale-lib-1-0-6-sources-2-jar/java/util/Hashtable.java  
* /opt/cola/permits/1132421795_1613177725.98/0/high-scale-lib-1-0-6-sources-2-jar/org/cliffc/high_scale_lib/NonBlockingHashMap.java  
* /opt/cola/permits/1132421795_1613177725.98/0/high-scale-lib-1-0-6-sources-2-jar/org/cliffc/high_scale_lib/NonBlockingSetInt.java  
* /opt/cola/permits/1132421795_1613177725.98/0/high-scale-lib-1-0-6-sources-2-jar/org/cliffc/high_scale_lib/NonBlockingIdentityHashMap.java  
* /opt/cola/permits/1132421795_1613177725.98/0/high-scale-lib-1-0-6-sources-2-jar/org/cliffc/high_scale_lib/NonBlockingHashtable.java
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- \* /opt/cola/permits/1135935614\_1613638550.88/0/asm-7-2-sources-4-jar/org/objectweb/asm/MethodTooLargeException.java

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\*\*\*\*\*

----  
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```
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jar/org/antlr/v4/runtime/Lexer.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/LexerATNSimulator.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/AbstractPredicateTransition.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/DiagnosticErrorListener.java  
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jar/org/antlr/v4/runtime/misc/FlexibleHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/tree/AbstractParseTreeVisitor.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-

jar/org/antlr/v4/runtime/atn/WildcardTransition.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/tree/ParseTreeProperty.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/tree/TreeNodeImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/StarLoopEntryState.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/dfa/DFA.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/dfa/DFASerializer.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/ATNConfigSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/PredictionContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/TokenSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/BasicBlockStartState.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/PlusBlockStartState.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/BlockEndState.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/WritableToken.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/PredicateTransition.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/BlockStartState.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/IntStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/Parser.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/StarLoopbackState.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/DefaultErrorStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/FailedPredicateException.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/SemanticContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/RuleTransition.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/EpsilonTransition.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/TokensStartState.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-

jar/org/antlr/v4/runtime/BailErrorStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/tree/ParseTreeWalker.java  
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jar/org/antlr/v4/runtime/ANTLRInputStream.java  
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jar/org/antlr/v4/runtime/tree/Trees.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/LL1Analyzer.java  
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jar/org/antlr/v4/runtime/atn/ATNState.java  
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jar/org/antlr/v4/runtime/NoViableAltException.java  
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\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/InputMismatchException.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/tree/Tree.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/ConsoleErrorListener.java  
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jar/org/antlr/v4/runtime/tree/ParseTreeListener.java  
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jar/org/antlr/v4/runtime/misc/MultiMap.java  
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jar/org/antlr/v4/runtime/atn/SetTransition.java  
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jar/org/antlr/v4/runtime/atn/BasicState.java  
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jar/org/antlr/v4/runtime/misc/IntSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/tree/ParseTree.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-

jar/org/antlr/v4/runtime/misc/NotNull.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/misc/IntegerStack.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/TokenStreamRewriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/tree/TerminalNodeImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/UnbufferedCharStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/SingletonPredictionContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/RuleContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/LexerInterpreter.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/tree/SyntaxTree.java  
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jar/org/antlr/v4/runtime/atn/DecisionState.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/misc/ParseCancellationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/AtomTransition.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/ArrayPredictionContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/Recognizer.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/ATN.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/misc/AbstractEqualityComparator.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/atn/NotSetTransition.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/ParserRuleContext.java  
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jar/org/antlr/v4/runtime/atn/RuleStartState.java  
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jar/org/antlr/v4/runtime/ANTLRFileStream.java  
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jar/org/antlr/v4/runtime/dfa/LexerDFASerializer.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-  
jar/org/antlr/v4/runtime/ANTLRErrorListener.java  
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- \* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/ATNSimulator.java
- \* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerMoreAction.java
- \* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerTypeAction.java
- \* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerIndexedCustomAction.java

\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/ATNType.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerModeAction.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerAction.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerCustomAction.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerSkipAction.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerPopModeAction.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerChannelAction.java  
\* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LexerActionExecutor.java

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- \* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/LookaheadEventInfo.java
- \* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/PredicateEvalInfo.java
- \* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atn/DecisionInfo.java
- \* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/VocabularyImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1013874009\_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/Vocabulary.java

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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```

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

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## 1.540 boost 1.53.0 28.el7

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## 1.541 libpcap 1.5.3 12.el7

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## 1.542 dc 1.3

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```

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```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/ViewController.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/AppDelegate.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-SwiftTests/Example_SwiftTests.swift
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift-Bridging-Header.h
```

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```
<label opaque="NO" clipsSubviews="YES" userInteractionEnabled="NO" contentMode="left" horizontalHuggingPriority="251" verticalHuggingPriority="251" text=" Copyright (c) 2015 DC. All rights reserved." textAlignment="center" lineBreakMode="tailTruncation" baselineAdjustment="alignBaselines" minimumFontSize="9" translatesAutoresizingMaskIntoConstraints="NO" id="8ie-xW-0ye">
```

Found in path(s):

```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/Example-Swift/Base.lproj/LaunchScreen.xib
```

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```
<string>The DCPathButton use the MIT license</string>
```

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```
* /opt/cola/permits/1000748847_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.plist
```

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Pod::Spec.new do |s|

s.name = "DCPathButton"

s.version = "2.1.1"

s.summary = " A beautiful button copy from Path@ "

s.description = <<-DESC

DCPathButton is a menu button, design by an famous App Path@.

Since Path@ 4.0, it return to use a tab bar instead of a side bar,

and also change the menu button. So I try to implement it and then

the DCPathButton born :)

DESC

s.homepage = "https://github.com/Tangdixi/DCPathButton"

s.license = {

:type => 'MIT',

:text => 'The DCPathButton use the MIT license'

}

s.author = { "Tangdixi" => "Tangdixi@gmail.com" }

s.platform = :ios, '7.0'

s.source = {

:git => "https://github.com/Tangdixi/DCPathButton.git",

:tag => "2.1.1"

}

s.source\_files = 'DCPathButton/Classes/\*.{h,m}'

s.resources = ["DCPathButton/Sounds/\*"]

s.frameworks = 'QuartzCore','AudioToolbox'

s.requires\_arc = true

end

Found in path(s):

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DCPathButton-39be410/DCPathButton.podspec

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# Acknowledgements

This application makes use of the following third party libraries:

## DCPathButton

The DCPathButton use the MIT license

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\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Pods/DCPathButton/DCPathButton/Classes/DCPathItemButton.h

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.m

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/ViewController.h

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\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathButton.m

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\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.h  
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\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example-Swift/DCPathButton/Classes/DCPathItemButton.m  
\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/Example/Example/AppDelegate.h  
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\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m

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Found in path(s):

\* /opt/cola/permits/1000748847\_1607109746.66/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/LISENCE

## 1.543 bind 9.11.4



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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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=====

```

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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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:for-each>
    </xsl:with-param>
  </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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```

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## 1.544 pcre 8.42

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-----

Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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\* /opt/ws\_local/PERMITS\_SQL/1062753080\_1592843748.75/opensaml-storage-impl-3-4-5-sources-jar/org/opensaml/storage/impl/memcached/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1062753080\_1592843748.75/opensaml-storage-impl-3-4-5-sources-jar/org/opensaml/storage/impl/client/package-info.java

\* /opt/ws\_local/PERMITS\_SQL/1062753080\_1592843748.75/opensaml-storage-impl-3-4-5-sources-jar/org/opensaml/storage/impl/client/ClientStorageLoadContext.java

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\* /opt/ws\_local/PERMITS\_SQL/1062753080\_1592843748.75/opensaml-storage-impl-3-4-5-sources-

jar/org/opensaml/storage/impl/client/PopulateClientStorageLoadContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1062753080\_1592843748.75/0/opensaml-storage-impl-3-4-5-sources-  
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jar/org/opensaml/storage/impl/JPAStorageService.java  
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## 1.548 opensaml-security-api 3.4.5

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# 1.551 urllib3 1.22

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# Contributions to the urllib3 project

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\* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

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  - \* HTTPS patch (which inspired HTTPSConnectionPool)
  
- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
  - \* NTLM-authenticated HTTPSConnectionPool
  - \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
  
- \* niphlod <niphlod@gmail.com>
  - \* Client-verified SSL certificates for HTTPSConnectionPool
  - \* Response gzip and deflate encoding support
  - \* Better unicode support for filepost using StringIO buffers
  
- \* btoconnor <brian@btoconnor.net>
  - \* Non-multipart encoding for POST requests
  
- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
  - \* Code review, PEP8 compliance, benchmark fix
  
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  - \* Bugfixes, suggestions, Requests integration
  
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  - \* Bugfixes, Improvements and Test coverage
  
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  - \* Design review, bugfixes, test coverage.
  
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  - \* IPv6 url support and test coverage

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  - \* Corrected multipart behavior for params
  
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  - \* Support for TLS SNI
  - \* API unification of ssl\_version/cert\_reqs
  - \* SSL fingerprint and alternative hostname verification
  - \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
  - \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
  - \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
  - \* Correct six.moves conflict
  - \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
  - \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield <<http://lukasa.co.uk/about/>>
  - \* Stream method for Response objects.
  - \* Return native strings in header values.
  - \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
  - \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  - \* Fixed a race condition
  
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  - \* Added HTTPS (CONNECT) proxy support
  
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  - \* Added abstraction for granular control of request fields
  
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  - \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  - \* Support for separate connect and request timeouts

- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <http://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <http://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer <asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.

- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Jon Wayne Parrott <jonwayne@google.com>
- \* App Engine environment tests.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <https://evanmeagher.net>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <jayvdb@gmail.com>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
- \* Bugfix related to reusing connections in indeterminate states.

- \* Ville Skytt <ville.skytta@iki.fi>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jesse Shapiro <jesse@jesseshapiro.net>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <http://dafoster.net/>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* [Your name or handle] <[email or website]>

\* [Brief summary of your changes]

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INF/maven/com.tomtom.speedtools/metrics/pom.xml

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Found in path(s):

\* /opt/cola/permits/1262723137\_1643432119.23/0/metrics-3-2-2-sources-jar/com/tomtom/speedtools/metrics/MultiMetricsCollector.java

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\* /opt/cola/permits/1262723137\_1643432119.23/0/metrics-3-2-2-sources-jar/com/tomtom/speedtools/metrics/MetricsCollector.java

\* /opt/cola/permits/1262723137\_1643432119.23/0/metrics-3-2-2-sources-jar/com/tomtom/speedtools/metrics/MetricsData.java

\* /opt/cola/permits/1262723137\_1643432119.23/0/metrics-3-2-2-sources-jar/com/tomtom/speedtools/metrics/MultiMetricsData.java

# 1.553 mpclib 1.0.1 3.el7

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## 1.557 jansson 2.10 1.e17

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```
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```

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```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-  
jar/org/codehaus/jackson/JsonStreamContext.java
```

```
* /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-  
jar/org/codehaus/jackson/Base64Variant.java
```

```
* /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-
```

jar/org/codehaus/jackson/JsonParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1078139193\_1600436032.4/0/jackson-core-asl-1-9-2-sources-  
jar/org/codehaus/jackson/JsonFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1078139193\_1600436032.4/0/jackson-core-asl-1-9-2-sources-  
jar/org/codehaus/jackson/JsonGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1078139193\_1600436032.4/0/jackson-core-asl-1-9-2-sources-  
jar/org/codehaus/jackson/Base64Variants.java  
\* /opt/ws\_local/PERMITS\_SQL/1078139193\_1600436032.4/0/jackson-core-asl-1-9-2-sources-  
jar/org/codehaus/jackson/util/ByteArrayBuilder.java

# 1.559 iptables 1.4.21-35.el7

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## 1.560 iniparse 1.4.2

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# 1.562 gmp 6.0.0 15.e17

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Version 2, June 1991

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```

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/\* A simple integer desk calculator using yacc and gmp.

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## 1.563 libaio 0.3.109-13.el7

## 1.564 zlib 1.2.11

### 1.564.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

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\*/

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## 1.565 llvm 7.0.1-1.el7

### 1.565.1 Available under license :

```
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
```

```
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s
```

```
; A shuffle mask with all undef elements is always legal.
```

```
define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {  
; CHECK-LABEL: PR41535:  
; CHECK:      // %bb.0:  
; CHECK-NEXT:  ext v0.8b, v0.8b, v1.8b, #4  
; CHECK-NEXT:  mov v0.d[1], v0.d[0]  
; CHECK-NEXT:  ret  
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>  
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>  
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>  
ret <4 x i32> %r  
}
```

```
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
```

```
;
```

```
; Test that early if conversion produces LOCR with operands of the right
```

```
; register classes.
```

```
define void @autogen_SD4739(i8*) {  
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register  
BB:
```

```

%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246:                                ; preds = %CF246, %BB
%SI163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248:                                ; preds = %CF248, %CF246
store i8 %SI163, i8* %0
br label %CF248
}
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```

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```

; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-
prefixes=CHECK,VEC256,AVX
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -
mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-
prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -
mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512

```

```

define void @zext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'zext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x
i32>

```

```

; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>

```

```

; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'zext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = zext <8 x i16> undef to <8 x i64>
%B = zext <8 x i32> undef to <8 x i64>
%C = zext <16 x i8> undef to <16 x i32>
%D = zext <16 x i16> undef to <16 x i32>
%E = zext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'sext256'
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext256'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x

```

```

i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}

define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; VEC512-LABEL: 'sext512'
; VEC512-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %A = sext <8 x i8> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>

```

```

; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; VEC512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; VEC512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
%A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
$OpenBSD: COPYRIGHT,v 1.3 2003/06/02 20:18:36 millert Exp $

```

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```

-----
/*_

```

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```
; RUN: llc -march=hexagon < %s
```

```
; REQUIRES: asserts
```

```
; The two loads based on %struct.0, loading two different data types  
; cause LSR to assume type "void" for the memory type. This would then  
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.
```

```
target triple = "hexagon"
```

```
%struct.0 = type { i8*, i8, %union.anon.0 }
```

```
%union.anon.0 = type { i8* }
```

```
define hidden fastcc void @fred() unnamed_addr #0 {
```

```
entry:
```

```
br i1 undef, label %while.end, label %while.body.lr.ph
```

```
while.body.lr.ph:                ; preds = %entry
```

```
br label %while.body
```

```
while.body:                        ; preds = %exit.2, %while.body.lr.ph
```

```
%lshr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
```

```
switch i32 undef, label %exit [
```

```
  i32 1, label %sw.bb.i
```

```
  i32 2, label %sw.bb3.i
```

```
]
```

```
sw.bb.i:                            ; preds = %while.body
```

```
unreachable
```

```
sw.bb3.i:                            ; preds = %while.body
```

```
unreachable
```

```
exit:                                ; preds = %while.body
```

```
switch i32 undef, label %exit.2 [
```

```
  i32 1, label %sw.bb.i17
```

```
  i32 2, label %sw.bb3.i20
```

```
]
```

```
sw.bb.i17:                            ; preds = %exit
```

```
%0 = bitcast %struct.0* %lshr.iv to i32*
```

```
%1 = load i32, i32* %0, align 4
```

```
unreachable
```

```

sw.bb3.i20:                                ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

```

```

exit.2:                                    ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

```

```

while.end:                                 ; preds = %entry
ret void
}

```

```

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

```

```

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

```

```

; First, extend each i32 to i64
; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

```

```

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

```

```

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0,
double 64.0>
ret <16 x double> %res
}

```

; This one is small enough to satisfy isSimple, but still illegally large.



```

define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
; RUN: opt %s -inline -S | FileCheck %s

```

```

define internal void @innerSmall() "min-legal-vector-width"="128" {
ret void
}

```

```

define internal void @innerLarge() "min-legal-vector-width"="512" {
ret void
}

```

```

define internal void @innerNoAttribute() {
ret void
}

```

; We should not add an attribute during inlining. No attribute means unknown.  
; Inlining doesn't change the fact that we don't know anything about this  
; function.

```

define void @outerNoAttribute() {
call void @innerLarge()
ret void
}

```

```

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
call void @innerLarge()
ret void
}

```

```

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
call void @innerSmall()
ret void
}

```

; We should remove the attribute after inlining since the callee's  
; vector width requirements are unknown.

```

define void @outerAttribute() "min-legal-vector-width"="128" {
call void @innerNoAttribute()
ret void
}

```

```

}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

```

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```

; RUN: opt -consthoist -S -o - %s | FileCheck %s
target datalayout = "e-m:e-p:32:32-i64:64-v128:64:128-a:0:32-n32-S64"
target triple = "thumbv6m-none--musleabi"

```

```

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*

```

```

; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

```

```
@goo = global i8* undef
```

```

define void @foo_i8() {
entry:
%0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
%1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
%2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
%3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
%4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
store i8 %4, i8* inttoptr(i32 805873688 to i8*)
store i8 %3, i8* inttoptr(i32 805873719 to i8*)
store i8 %2, i8* inttoptr(i32 805873720 to i8*)
store i8 %1, i8* inttoptr(i32 805873727 to i8*)
store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

```

```

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*

```

```

; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

```

```

define void @foo_i16() {
entry:
%0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

```

```

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

```

```

define void @foo_i32() {
entry:
    %0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
    %1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
    %2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
    %3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
    %4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
    %5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
    ret void
}
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#
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# individual or corporate CLA was used.
#
# Names should be added to this file as:
#   Name <email address>
#
# Please keep the list sorted.

```

```

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; NOTE: Assertions have been autogenerated by utils/update\_llc\_test\_checks.py

; RUN: llc < %s -mtriple=x86\_64-unknown-unknown -mattr=avx512vl,avx512bw,avx512dq,prefer-256-bit |  
FileCheck %s

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the  
legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

```
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {  
; CHECK-LABEL: add256:  
; CHECK:      # %bb.0:  
; CHECK-NEXT: vmovdqa (%rdi), %ymm0  
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1  
; CHECK-NEXT: vpadd 32(%rsi), %ymm1, %ymm1  
; CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0  
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)  
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%d = load <16 x i32>, <16 x i32>* %a  
%e = load <16 x i32>, <16 x i32>* %b  
%f = add <16 x i32> %d, %e
```







```

%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

```

```

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-
width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:  vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

```

```

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-
width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:  vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```

```

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-
width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

```

```

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-
width"="256" {
; CHECK-LABEL: _Z9test_charPcS_i_256:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB8_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %ymm3
; CHECK-NEXT: vpmovsxbw 16(%rdi,%rcx), %ymm4
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5
; CHECK-NEXT: vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT: vpadd %ymm1, %ymm3, %ymm1
; CHECK-NEXT: vpmovsxbw 16(%rsi,%rcx), %ymm3
; CHECK-NEXT: vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT: vpadd %ymm2, %ymm3, %ymm2
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB8_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm1
; CHECK-NEXT: vpadd %ymm0, %ymm2, %ymm0
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0

```

```

; CHECK-NEXT: vpsltd {.*#+} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpsltd {.*#+} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

```

entry:

```

%3 = zext i32 %2 to i64
br label %vector.body

```

vector.body:

```

%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

```

middle.block:

```

%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef>

```

```

%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

```

```

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-
width"="512" {

```

```

; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT:  movl %edx, %eax
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  xorl %ecx, %ecx
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT: .LBB9_1: # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT:  vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT:  vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT:  vpadd %zmm1, %zmm2, %zmm1
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB9_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT:  vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd { {.#+} } xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd { {.#+} } xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vmovd %xmm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
entry:
%3 = zext i32 %2 to i64
br label %vector.body

```

```

vector.body:

```

```

%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]

```

```

%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

```

middle.block:

```

%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

```

```
@a = global [1024 x i8] zeroinitializer, align 16
```

```
@b = global [1024 x i8] zeroinitializer, align 16
```

```
define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
```



```

middle.block:
    %lcssa = phi <16 x i32> [ %10, %vector.body ]
    %rdx.shuf = shufflevector <16 x i32> %lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12,
i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
    %bin.rdx = add <16 x i32> %lcssa, %rdx.shuf
    %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef>
    %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
    %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
    %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
    %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef>
    %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
    %12 = extractelement <16 x i32> %bin.rdx4, i32 0
    ret i32 %12
}

```

```

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-LABEL: sad_16i8_512:
; CHECK:      # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB11_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-NEXT: vpadd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB11_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm1
; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd {{.*#+}} xmm1 = xmm0[1,1,2,3]
; CHECK-NEXT: vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
    br label %vector.body

```

vector.body:

```
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body
```

middle.block:

```
%.lcssa = phi <16 x i32> [ %10, %vector.body ]
%rdx.shuf = shufflevector <16 x i32> %.lcssa, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <16 x i32> %.lcssa, %rdx.shuf
%rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
```

```
define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK:      # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
```



```

; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT: vmovaps %ymm1, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq

```

```

%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  vpmovm2d %k0, %zmm0
; CHECK-NEXT:  vcvt dq2pd %ymm0, %zmm1
; CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:  vcvt dq2pd %ymm0, %zmm0
; CHECK-NEXT:  vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:  vmovaps %zmm1, (%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:  vcvt dq2ps %ymm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm1
; CHECK-NEXT:  vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT:  vcvt dq2ps %ymm1, %ymm1
; CHECK-NEXT:  vmovaps %ymm1, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:    # %bb.0:

```

```

; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

```

```

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

```

```

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0

```

```

; CHECK-NEXT:   vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:   vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:   vmovaps %zmm1, (%rdi)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

```

```

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {

```

```

; CHECK-LABEL: test_16f32toub_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

```

```

define <16 x i16> @test_16f32toub_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {

```

```

; CHECK-LABEL: test_16f32toub_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT: vpslld $31, %zmm1, %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptoui <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

```

```

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="256" {

```

```

; CHECK-LABEL: test_16f32tosb_256:

```

```

; CHECK:    # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k0
; CHECK-NEXT:  vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:  vpmovd2m %ymm1, %k1
; CHECK-NEXT:  kunpckbw %k0, %k1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

```

```

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-
width"="512" {

```

```

; CHECK-LABEL: test_16f32tosb_512:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:  vpmovd2m %zmm1, %k1
; CHECK-NEXT:  vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:  retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
ret <16 x i16> %select
}

```

```

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {

```

```

; CHECK-LABEL: mul256:
; CHECK:    # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:  vpunpckhbw {{.*#+}} %ymm4 =
ymm3[8],ymm0[8],ymm3[9],ymm0[9],ymm3[10],ymm0[10],ymm3[11],ymm0[11],ymm3[12],ymm0[12],ymm3[13
],ymm0[13],ymm3[14],ymm0[14],ymm3[15],ymm0[15],ymm3[24],ymm0[24],ymm3[25],ymm0[25],ymm3[26],ymm
m0[26],ymm3[27],ymm0[27],ymm3[28],ymm0[28],ymm3[29],ymm0[29],ymm3[30],ymm0[30],ymm3[31],ymm0[
31]
; CHECK-NEXT:  vpunpckhbw {{.*#+}} %ymm5 =
ymm1[8],ymm0[8],ymm1[9],ymm0[9],ymm1[10],ymm0[10],ymm1[11],ymm0[11],ymm1[12],ymm0[12],ymm1[13
],ymm0[13],ymm1[14],ymm0[14],ymm1[15],ymm0[15],ymm1[24],ymm0[24],ymm1[25],ymm0[25],ymm1[26],ymm
m0[26],ymm1[27],ymm0[27],ymm1[28],ymm0[28],ymm1[29],ymm0[29],ymm1[30],ymm0[30],ymm1[31],ymm0[
31]
; CHECK-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-NEXT:  vmovdqa {{.*#+}} %ymm5 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]

```

```

; CHECK-NEXT: vpand %ymm5, %ymm4, %ymm4
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm3 =
ymm3[0],ymm0[0],ymm3[1],ymm0[1],ymm3[2],ymm0[2],ymm3[3],ymm0[3],ymm3[4],ymm0[4],ymm3[5],ymm0[
5],ymm3[6],ymm0[6],ymm3[7],ymm0[7],ymm3[16],ymm0[16],ymm3[17],ymm0[17],ymm3[18],ymm0[18],ymm3[
19],ymm0[19],ymm3[20],ymm0[20],ymm3[21],ymm0[21],ymm3[22],ymm0[22],ymm3[23],ymm0[23]
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm1 =
ymm1[0],ymm0[0],ymm1[1],ymm0[1],ymm1[2],ymm0[2],ymm1[3],ymm0[3],ymm1[4],ymm0[4],ymm1[5],ymm0[
5],ymm1[6],ymm0[6],ymm1[7],ymm0[7],ymm1[16],ymm0[16],ymm1[17],ymm0[17],ymm1[18],ymm0[18],ymm1[
19],ymm0[19],ymm1[20],ymm0[20],ymm1[21],ymm0[21],ymm1[22],ymm0[22],ymm1[23],ymm0[23]
; CHECK-NEXT: vpmullw %ymm3, %ymm1, %ymm1
; CHECK-NEXT: vpand %ymm5, %ymm1, %ymm1
; CHECK-NEXT: vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm3 =
ymm2[8],ymm0[8],ymm2[9],ymm0[9],ymm2[10],ymm0[10],ymm2[11],ymm0[11],ymm2[12],ymm0[12],ymm2[13
],ymm0[13],ymm2[14],ymm0[14],ymm2[15],ymm0[15],ymm2[24],ymm0[24],ymm2[25],ymm0[25],ymm2[26],ymm
0[26],ymm2[27],ymm0[27],ymm2[28],ymm0[28],ymm2[29],ymm0[29],ymm2[30],ymm0[30],ymm2[31],ymm0[
31]
; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT: vpmullw %ymm3, %ymm4, %ymm3
; CHECK-NEXT: vpand %ymm5, %ymm3, %ymm3
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm2 =
ymm2[0],ymm0[0],ymm2[1],ymm0[1],ymm2[2],ymm0[2],ymm2[3],ymm0[3],ymm2[4],ymm0[4],ymm2[5],ymm0[
5],ymm2[6],ymm0[6],ymm2[7],ymm0[7],ymm2[16],ymm0[16],ymm2[17],ymm0[17],ymm2[18],ymm0[18],ymm2[
19],ymm0[19],ymm2[20],ymm0[20],ymm2[21],ymm0[21],ymm2[22],ymm0[22],ymm2[23],ymm0[23]
; CHECK-NEXT: vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-NEXT: vpand %ymm5, %ymm0, %ymm0
; CHECK-NEXT: vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
; CHECK-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}

```

```

define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {

```

```

; CHECK-LABEL: mul512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-NEXT: vpunpckhbw {{.*#+}} zmm2 =
zmm1[8],zmm0[8],zmm1[9],zmm0[9],zmm1[10],zmm0[10],zmm1[11],zmm0[11],zmm1[12],zmm0[12],zmm1[13],

```



```

ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x
i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x
i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
bb:
  %tmp = alloca <8 x i64>, align 32

```



```

%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x
i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x
i64> %arg1.val)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
bb:
%tmp = alloca <8 x i64>, align 32

```

```

%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x
i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #1 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should not promote
; CHECK-LABEL: @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x
i64>* readonly %arg1)
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #2 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
bb:
%tmp = alloca <8 x i64>, align 32

```

```

%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x
i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>
%arg1.val)
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #3 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
; CHECK-LABEL: @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>
%arg1.val)
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8
x i64>* readonly %arg1) #4 {
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
bb:
%tmp = alloca <8 x i64>, align 32

```

```

%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

```

```
; Function Attrs: argmemonly nounwind
```

```
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5
```

```
attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="512" }
```

```
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }
```

```
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="256" "prefer-vector-width"="256" }
```

```
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
"prefer-vector-width"="256" }
```

```
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }
```

```
attributes #5 = { argmemonly nounwind }
```

```
=====
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LLVM System Interface Library

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```
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s  
;  
; D31946  
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.  
; Additionally ensure that the output code actually put fp128 values in SSE registers.
```

```
declare fp128 @llvm.fabs.f128(fp128)
```

```
declare fp128 @llvm.copysign.f128(fp128, fp128)
```

```
define fp128 @TestSelect(fp128 %a, fp128 %b) {  
  %cmp = fcmp ogt fp128 %a, %b  
  %sub = fsub fp128 %a, %b  
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000  
  ret fp128 %res  
; CHECK-LABEL: TestSelect:  
; CHECK      movaps 16(%rsp), %xmm1  
; CHECK-NEXT callq __subtf3  
; CHECK-NEXT testl %ebx, %ebx  
; CHECK-NEXT jg .LBB0_2  
; CHECK-NEXT # %bb.1:  
; CHECK-NEXT movaps .LCPI0_0(%rip), %xmm0  
; CHECK-NEXT .LBB0_2:  
; CHECK-NEXT addq $32, %rsp  
; CHECK-NEXT popq %rbx  
; CHECK-NEXT retq  
}
```

```
define fp128 @TestFabs(fp128 %a) {
```

```

%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
; CHECK-LABEL: TestFabs:
; CHECK    andps .LCPI1_0(%rip), %xmm0
; CHECK-NEXT retq
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
%res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
; CHECK-LABEL: TestCopysign:
; CHECK    andps .LCPI2_1(%rip), %xmm0
; CHECK-NEXT orps %xmm1, %xmm0
; CHECK-NEXT retq
}

define fp128 @TestFneg(fp128 %a) {
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000008000000000000000, %mul
ret fp128 %res
; CHECK-LABEL: TestFneg:
; CHECK    movaps %xmm0, %xmm1
; CHECK-NEXT callq __multf3
; CHECK-NEXT xorps .LCPI3_0(%rip), %xmm0
; CHECK-NEXT popq %rax
; CHECK-NEXT retq
}

```

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\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/util/RestrictedResourceRetriever.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/RemoteKeySourceException.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/BadJOSEException.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/proc/DefaultJWTClaimsVerifier.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/JWSVerifierFactory.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/JWTClaimsSetTransformer.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/JWSProvider.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/EncryptionMethod.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/ECKKey.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/Requirement.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/util/DefaultResourceRetriever.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/source/JWKSource.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/JOSEMatcher.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/PlainObject.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/factories/DefaultJWEDecrypterFactory.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/util/package-info.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/Payload.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/package-info.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/JWTClaimsSet.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/proc/JWTClaimsSetVerifier.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/EncryptedJWT.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/KeySourceException.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/JWT.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/util/DateUtils.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/RSASSASigner.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/JWSSigner.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/SimpleSecurityContext.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/source/package-info.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/KeyException.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/proc/BadJWTException.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/ECPParameterTable.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/JWEEncrypter.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/PayloadTransformer.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/MACVerifier.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/bc/BouncyCastleProviderSingleton.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jca/package-info.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/PlainJWT.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/ConfigurableJOSEProcessor.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/factories/DefaultJWSVerifierFactory.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jca/JCAContext.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-

jar/com/nimbusds/jose/JWEDecrypter.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jwk/KeyType.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jca/JCAAware.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jwt/proc/package-info.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jwk/JWKSelector.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/util/ByteUtils.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/package-  
info.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jwk/source/RemoteJWKSet.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/AlgorithmFamily.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jca/JWEJCAContext.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jwt/SignedJWT.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jca/JCASupport.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jwk/source/ImmutableSecret.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/util/AbstractRestrictedResourceRetriever.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/CriticalHeaderParamsAware.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jwt/proc/ConfigurableJWTProcessor.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jwk/AsymmetricJWK.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/crypto/ECDHDecrypter.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/util/StandardCharset.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/crypto/RSAEncrypter.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/JOSEException.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/crypto/DirectEncrypter.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/JWEObject.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jwt/JWTParser.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-

jar/com/nimbusds/jose/util/IntegerUtils.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jwt/proc/ClockSkewAware.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/proc/JOSEProcessor.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/JWEProvider.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/JWSAlgorithm.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/crypto/RSADecrypter.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/util/BigIntegerUtils.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/crypto/MACSigner.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jwk/KeyConverter.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/proc/JWEDecrypterFactory.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jwk/JWKMetadata.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/util/Resource.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/util/Base64URL.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jwk/KeyUse.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/proc/AbstractJWKSelectorWithSource.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/JOSEObject.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/util/package-info.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jwk/JWK.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/JWSObject.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/JWECryptoParts.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/util/ArrayUtils.java  
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jar/com/nimbusds/jose/util/X509CertUtils.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/JOSEProvider.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/Header.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-

jar/com/nimbusds/jose/crypto/RSASSAVerifier.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/proc/SecurityContext.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jwt/proc/JWTProcessorConfiguration.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/crypto/package-info.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/JWEHeader.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/CompressionAlgorithm.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/JOSEObjectType.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/proc/JWSKeySelector.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/crypto/ECDSAVerifier.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jwk/KeyOperation.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/util/JSONArrayUtils.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/util/DeflateUtils.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/util/Base64.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/JWSHeader.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/crypto/ECDSASigner.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/crypto/factories/package-info.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/util/X509CertChainUtils.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/crypto/AESDecrypter.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/proc/JWEKeySelector.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jwt/proc/JWTProcessor.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/jwk/SecretJWK.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/util/ResourceRetriever.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jwt/proc/JWTClaimsVerifier.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-  
jar/com/nimbusds/jose/proc/BadJWSException.java

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* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/crypto/bc/BouncyCastleFIPSProviderSingleton.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/crypto/bc/package-info.java
```

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```

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```
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Found in path(s):

```
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/crypto/Ed25519Signer.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/util/Base64Codec.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/jwk/JWKSet.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/crypto/X25519Decrypter.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/crypto/Ed25519Verifier.java
```

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\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/RSACryptoProvider.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/CriticalHeaderParamsDeferral.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/ConcatKDF.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/gen/ECKKeyGenerator.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/util/KeyUtils.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/PRFParams.java  
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\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/ActionRequiredForJWSCpletionException.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/DefaultJOSEObjectTypeVerifier.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/PasswordLookup.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/AlgorithmParametersHelper.java

\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/Curve.java  
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\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/produce/JWSSignerFactory.java  
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\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/ECDSA.java  
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\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/CipherHelper.java  
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\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/PasswordBasedCryptoProvider.java  
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\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/gen/package-info.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/AuthenticatedCipherText.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/JWKException.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/opts/OptionUtils.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/DeflateHelper.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/BaseJWEProvider.java  
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\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/AESEncrypter.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/opts/ECChecks.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/util/IntegerOverflowException.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/CompletableJWSObjectSigning.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/LegacyAESGCM.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/opts/UserAuthenticationRequired.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/produce/package-info.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/source/JWKSetWithTimestamp.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/PBKDF2.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/proc/JWTClaimsSetAwareJWSKeySelector.java  
\* /opt/cola/permits/1151440908\_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/impl/package-info.java

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* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/crypto/utls/ConstantTimeUtils.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/crypto/impl/DirectCryptoProvider.java
```

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\* /opt/cola/permits/1199742917\_1630577017.47/0/failureaccess-1-0-1-sources-3-jar/com/google/common/util/concurrent/internal/InternalFutures.java

# 1.569 lucene-memory 8.10.1

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

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\* @version 3.0 (December 2000)

\*

\* Optimised ANSI C code for the Rijndael cipher (now AES)

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

\* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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Version 3, 29 June 2007

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## 1.579 popt 1.13 16.el7

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

<!--

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-->

<!-- \$Id\$ -->

<!-- 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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```

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## 1.582 lua 5.2.2

## 1.583 byebug 9.0.5

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# 1.584 opensaml-messaging-api 3.4.5

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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
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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

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# 1.600 rainbow 2.1.0

## 1.600.1 Available under license :

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# 1.601 super-csv 2.1.0

## 1.601.1 Available under license :

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 */
```

Found in path(s):

```
* /opt/cola/permits/1270821333_1644847030.24/0/super-csv-2-1-0-sources-
jar/org/supercsv/util/ThreeDHashMap.java
* /opt/cola/permits/1270821333_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/io/ITokenizer.java
* /opt/cola/permits/1270821333_1644847030.24/0/super-csv-2-1-0-sources-
jar/org/supercsv/io/AbstractCsvReader.java
* /opt/cola/permits/1270821333_1644847030.24/0/super-csv-2-1-0-sources-
jar/org/supercsv/cellprocessor/ParseChar.java
* /opt/cola/permits/1270821333_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/io/CsvListReader.java
* /opt/cola/permits/1270821333_1644847030.24/0/super-csv-2-1-0-sources-
jar/org/supercsv/quote/AlwaysQuoteMode.java
* /opt/cola/permits/1270821333_1644847030.24/0/super-csv-2-1-0-sources-
jar/org/supercsv/cellprocessor/ConvertNullTo.java
* /opt/cola/permits/1270821333_1644847030.24/0/super-csv-2-1-0-sources-
jar/org/supercsv/cellprocessor/FmtDate.java
* /opt/cola/permits/1270821333_1644847030.24/0/super-csv-2-1-0-sources-
jar/org/supercsv/quote/ColumnQuoteMode.java
* /opt/cola/permits/1270821333_1644847030.24/0/super-csv-2-1-0-sources-
jar/org/supercsv/util/TwoDHashMap.java
* /opt/cola/permits/1270821333_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/io/CsvListWriter.java
* /opt/cola/permits/1270821333_1644847030.24/0/super-csv-2-1-0-sources-
```

jar/org/supercsv/util/ReflectionUtils.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/exception/SuperCsvConstraintViolationException.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/quote/NormalQuoteMode.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/comment/CommentMatcher.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/StrReplace.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/io/ICsvMapWriter.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/encoder/package-info.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/package-info.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/io/CsvBeanReader.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/ift/BoolCellProcessor.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/quote/QuoteMode.java  
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\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/constraint/UniqueHashCode.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/io/CsvMapWriter.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/ParseDouble.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/constraint/StrMinMax.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/constraint/Strlen.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/Token.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/comment/CommentStartsWith.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/quote/package-info.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/comment/package-info.java  
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\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/Truncate.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/ParseLong.java  
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\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/constraint/Equals.java

\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/ParseBool.java  
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\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/encoder/CsvEncoder.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/Trim.java  
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\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/util/MethodCache.java  
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\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/constraint/IsIncludedIn.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/exception/SuperCsvCellProcessorException.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/io/CsvMapReader.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/constraint/NotNull.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/constraint/RequireHashCode.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/constraint/ForbidSubStr.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/util/package-info.java  
\* /opt/cola/permits/1270821333\_1644847030.24/0/super-csv-2-1-0-sources-jar/org/supercsv/cellprocessor/ift/package-info.java

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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.

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.

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

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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.

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

```
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(at your option) any later version.
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
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Also add information on how to contact you by electronic and paper mail.

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

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands

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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.]

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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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- 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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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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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.

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# 1.607 parent-join-client 7.16.3

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/Ordering.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpScUnboundedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpMpcAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MessagePassingQueueUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpScLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/Preference.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
```

jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/MessagePassingQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/SupportsIterator.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/MPMCUnboundedXaddArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/MpscGrowableArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/atomic/AtomicQueueFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/MPMCArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/atomic/SpSCAtomicArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/SpMCArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/maps/AbstractEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/MPMCUnboundedXaddChunk.java  
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jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/util/UnsafeLongArrayAccess.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/maps/NonBlockingHashMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
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jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java  
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\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-  
jar/org/jctools/queues/MpscArrayQueue.java  
\* /opt/ws\_local/PERMITS\_SQL/1093815924\_1601014602.33/0/jctools-core-3-1-0-sources-

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jar/org/jctools/util/UnsafeAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/RangeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseSpSCLinkedListArrayQueue.java
No license file was found, but licenses were detected in source scan.

```

```

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

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

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

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```

    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
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    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava-testlib</artifactId>

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</plugin>
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<extensions>>true</extensions>
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<instructions>
<Import-Package>sun.misc;resolution:=optional</Import-Package>
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<artifactId>maven-javadoc-plugin</artifactId>
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</additionalOptions>
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<distributionManagement>
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</repository>
</distributionManagement>

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

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

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

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

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

<prerequisites>
  <maven>3.5.0</maven>
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  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

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

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>
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Found in path(s):

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

# 1.615 libdaemon 0.14 7.e17

## 1.615.1 Available under license :

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Version 2.1, February 1999

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Although the Lesser General Public License is Less protective of the

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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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jar/org/jline/terminal/spi/JansiSupport.java

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jar/org/jline/terminal/TerminalBuilder.java

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jar/org/jline/terminal/spi/JnaSupport.java

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#

black

maroon

green

olive

navy

purple

teal

silver

grey

red

lime

yellow

blue

fuchsia

aqua

white

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navyblue

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grey62  
grey66  
grey70  
grey74  
grey78  
grey82  
grey85  
grey89  
grey93

Found in path(s):

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/colors.txt

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\*/

Found in path(s):

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/AnsiWriter.java

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\*/

Found in path(s):

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/ExecHelper.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/ExecPty.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/InputStreamReader.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/package-info.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/MouseEvent.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/Levenshtein.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/WCWidth.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/CursorSupport.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/Attributes.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/ClosedException.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/spi/Pty.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/Signals.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/ShutdownHooks.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/Log.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/AttributedString.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/MouseSupport.java

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/Cursor.java

```
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/Utils/OSUtils.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/Utils/package-
info.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/Utils/DiffHelper.java
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```

```
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```

```
auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smo, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc, NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
```



status\_line\_esc\_ok, eslok, es  
tilde\_glitch, hz, hz  
transparent\_underline, ul, ul  
xon\_xoff, xon, xo  
columns, cols, co  
init\_tabs, it, it  
label\_height, lh, lh  
label\_width, lw, lw  
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lines\_of\_memory, lm, lm  
magic\_cookie\_glitch, xmc, sg  
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max\_colors, colors, Co  
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no\_color\_video, ncv, NC  
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padding\_baud\_rate, pb, pb  
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width\_status\_line, wsl, ws  
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bit\_image\_type, bitype, Yp  
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dot\_vert\_spacing, spinv, Yb  
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acs\_chars, acsc, ac  
back\_tab, cbt, bt  
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change\_line\_pitch, lpi, ZB  
change\_res\_horz, chr, ZC  
change\_res\_vert, cvr, ZD  
change\_scroll\_region, csr, cs  
char\_padding, rmp, rP  
clear\_all\_tabs, tbc, ct

clear\_margins, mgc, MC  
clear\_screen, clear, cl  
clr\_bol, e11, cb  
clr\_eol, el, ce  
clr\_eos, ed, cd  
column\_address, hpa, ch  
command\_character, cmdch, CC  
create\_window, cwin, CW  
cursor\_address, cup, cm  
cursor\_down, cud1, do  
cursor\_home, home, ho  
cursor\_invisible, civis, vi  
cursor\_left, cub1, le  
cursor\_mem\_address, mrcup, CM  
cursor\_normal, cnorm, ve  
cursor\_right, cuf1, nd  
cursor\_to\_ll, ll, ll  
cursor\_up, cuu1, up  
cursor\_visible, cvvis, vs  
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delete\_character, dch1, dc  
delete\_line, dl1, dl  
dial\_phone, dial, DI  
dis\_status\_line, dsl, ds  
display\_clock, dclk, DK  
down\_half\_line, hd, hd  
ena\_acs, enacs, eA  
enter\_alt\_charset\_mode, smacs, as  
enter\_am\_mode, smam, SA  
enter\_blink\_mode, blink, mb  
enter\_bold\_mode, bold, md  
enter\_ca\_mode, smcup, ti  
enter\_delete\_mode, smdc, dm  
enter\_dim\_mode, dim, mh  
enter\_doublewide\_mode, swidm, ZF  
enter\_draft\_quality, sdrfq, ZG  
enter\_insert\_mode, smir, im  
enter\_italics\_mode, sitm, ZH  
enter\_leftward\_mode, slm, ZI  
enter\_micro\_mode, smicm, ZJ  
enter\_near\_letter\_quality, snlq, ZK  
enter\_normal\_quality, snrmq, ZL  
enter\_protected\_mode, prot, mp  
enter\_reverse\_mode, rev, mr  
enter\_secure\_mode, invis, mk  
enter\_shadow\_mode, sshm, ZM  
enter\_standout\_mode, smso, so  
enter\_subscript\_mode, ssubm, ZN

enter\_superscript\_mode, ssupm, ZO  
enter\_underline\_mode, smul, us  
enter\_upward\_mode, sum, ZP  
enter\_xon\_mode, smxon, SX  
erase\_chars, ech, ec  
exit\_alt\_charset\_mode, rmacs, ae  
exit\_am\_mode, rmam, RA  
exit\_attribute\_mode, sgr0, me  
exit\_ca\_mode, rmcup, te  
exit\_delete\_mode, rmdc, ed  
exit\_doublewide\_mode, rwidm, ZQ  
exit\_insert\_mode, rmir, ei  
exit\_italics\_mode, ritm, ZR  
exit\_leftward\_mode, rlm, ZS  
exit\_micro\_mode, rmicm, ZT  
exit\_shadow\_mode, rshm, ZU  
exit\_standout\_mode, rmso, se  
exit\_subscript\_mode, rsubm, ZV  
exit\_superscript\_mode, rsupm, ZW  
exit\_underline\_mode, rmul, ue  
exit\_upward\_mode, rum, ZX  
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flash\_hook, hook, fh  
flash\_screen, flash, vb  
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from\_status\_line, fsl, fs  
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hangup, hup, HU  
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init\_2string, is2, is  
init\_3string, is3, i3  
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init\_prog, iprog, iP  
initialize\_color, initc, Ic  
initialize\_pair, initp, Ip  
insert\_character, ich1, ic  
insert\_line, il1, al  
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key\_a3, ka3, K3  
key\_b2, kb2, K2  
key\_backspace, kbs, kb  
key\_beg, kbeg, @1  
key\_btab, kcbt, kB  
key\_c1, kc1, K4  
key\_c3, kc3, K5  
key\_cancel, kcan, @2

key\_catab, ktbc, ka  
key\_clear, kclr, kC  
key\_close, kclo, @3  
key\_command, kcmd, @4  
key\_copy, kcpy, @5  
key\_create, kcrt, @6  
key\_ctab, kctab, kt  
key\_dc, kdch1, kD  
key\_dl, kdl1, kL  
key\_down, kcud1, kd  
key\_eic, krmir, kM  
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key\_enter, kent, @8  
key\_eol, kel, kE  
key\_eos, ked, kS  
key\_exit, kext, @9  
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key\_f11, kf11, F1  
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key\_f2, kf2, k2  
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key\_f21, kf21, FB  
key\_f22, kf22, FC  
key\_f23, kf23, FD  
key\_f24, kf24, FE  
key\_f25, kf25, FF  
key\_f26, kf26, FG  
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key\_f28, kf28, FI  
key\_f29, kf29, FJ  
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key\_f30, kf30, FK  
key\_f31, kf31, FL  
key\_f32, kf32, FM  
key\_f33, kf33, FN  
key\_f34, kf34, FO  
key\_f35, kf35, FP  
key\_f36, kf36, FQ  
key\_f37, kf37, FR

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key\_f39, kf39, FT  
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key\_f41, kf41, FV  
key\_f42, kf42, FW  
key\_f43, kf43, FX  
key\_f44, kf44, FY  
key\_f45, kf45, FZ  
key\_f46, kf46, Fa  
key\_f47, kf47, Fb  
key\_f48, kf48, Fc  
key\_f49, kf49, Fd  
key\_f5, kf5, k5  
key\_f50, kf50, Fe  
key\_f51, kf51, Ff  
key\_f52, kf52, Fg  
key\_f53, kf53, Fh  
key\_f54, kf54, Fi  
key\_f55, kf55, Fj  
key\_f56, kf56, Fk  
key\_f57, kf57, Fl  
key\_f58, kf58, Fm  
key\_f59, kf59, Fn  
key\_f6, kf6, k6  
key\_f60, kf60, Fo  
key\_f61, kf61, Fp  
key\_f62, kf62, Fq  
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key\_f7, kf7, k7  
key\_f8, kf8, k8  
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key\_find, kfnd, @0  
key\_help, khlp, %1  
key\_home, khome, kh  
key\_ic, kich1, kI  
key\_il, kill1, kA  
key\_left, kcub1, kl  
key\_ll, kll, kH  
key\_mark, kmrk, %2  
key\_message, kmsg, %3  
key\_move, kmov, %4  
key\_next, knxt, %5  
key\_npage, knp, kN  
key\_open, kopn, %6  
key\_options, kopt, %7  
key\_ppage, kpp, kP  
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key\_print, kpri, %9  
key\_redo, krdo, %0  
key\_reference, kref, &1  
key\_refresh, krfr, &2  
key\_replace, krpl, &3  
key\_restart, krst, &4  
key\_resume, kres, &5  
key\_right, kcuf1, kr  
key\_save, ksav, &6  
key\_sbeg, kBEG, &9  
key\_scancel, kCAN, &0  
key\_scommand, kCMD, \*1  
key\_scopy, kCPY, \*2  
key\_screate, kCRT, \*3  
key\_sdc, kDC, \*4  
key\_sdl, kDL, \*5  
key\_select, kslt, \*6  
key\_send, kEND, \*7  
key\_seol, kEOL, \*8  
key\_sexit, kEXT, \*9  
key\_sf, kind, kF  
key\_sfind, kFND, \*0  
key\_shelp, kHLP, #1  
key\_shome, kHOM, #2  
key\_sic, kIC, #3  
key\_sleft, kLFT, #4  
key\_smessage, kMSG, %a  
key\_smove, kMOV, %b  
key\_snext, kNXT, %c  
key\_soptions, kOPT, %d  
key\_sprevious, kPRV, %e  
key\_sprint, kPRT, %f  
key\_sr, kri, kR  
key\_sredo, kRDO, %g  
key\_sreplace, kRPL, %h  
key\_sright, kRIT, %i  
key\_sresume, kRES, %j  
key\_ssave, kSAV, !1  
key\_ssuspend, kSPD, !2  
key\_stab, khts, kT  
key\_sundo, kUND, !3  
key\_suspend, kspd, &7  
key\_undo, kund, &8  
key\_up, kcuu1, ku  
keypad\_local, rmkx, ke  
keypad\_xmit, smkx, ks  
lab\_f0, lf0, l0  
lab\_f1, lf1, l1

lab\_f10, lf10, la  
lab\_f2, lf2, l2  
lab\_f3, lf3, l3  
lab\_f4, lf4, l4  
lab\_f5, lf5, l5  
lab\_f6, lf6, l6  
lab\_f7, lf7, l7  
lab\_f8, lf8, l8  
lab\_f9, lf9, l9  
label\_format, fln, Lf  
label\_off, rmln, LF  
label\_on, smln, LO  
meta\_off, rmm, mo  
meta\_on, smm, mm  
micro\_column\_address, mhpa, ZY  
micro\_down, mcud1, ZZ  
micro\_left, mcub1, Za  
micro\_right, mcuf1, Zb  
micro\_row\_address, mypa, Zc  
micro\_up, mciu1, Zd  
newline, nel, nw  
order\_of\_pins, porder, Ze  
orig\_colors, oc, oc  
orig\_pair, op, op  
pad\_char, pad, pc  
parm\_dch, dch, DC  
parm\_delete\_line, dl, DL  
parm\_down\_cursor, cud, DO  
parm\_down\_micro, mcud, Zf  
parm\_ich, ich, IC  
parm\_index, indn, SF  
parm\_insert\_line, il, AL  
parm\_left\_cursor, cub, LE  
parm\_left\_micro, mcub, Zg  
parm\_right\_cursor, cuf, RI  
parm\_right\_micro, mcuf, Zh  
parm\_rindex, rin, SR  
parm\_up\_cursor, cuu, UP  
parm\_up\_micro, mciu, Zi  
pkey\_key, pfkey, pk  
pkey\_local, pfloc, pl  
pkey\_xmit, pfx, px  
plab\_norm, pln, pn  
print\_screen, mc0, ps  
prtr\_non, mc5p, pO  
prtr\_off, mc4, pf  
prtr\_on, mc5, po  
pulse, pulse, PU

quick\_dial, qdial, QD  
remove\_clock, rmclk, RC  
repeat\_char, rep, rp  
req\_for\_input, rfi, RF  
reset\_1string, rs1, r1  
reset\_2string, rs2, r2  
reset\_3string, rs3, r3  
reset\_file, rf, rf  
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save\_cursor, sc, sc  
scroll\_forward, ind, sf  
scroll\_reverse, ri, sr  
select\_char\_set, scs, Zj  
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set\_background, setb, Sb  
set\_bottom\_margin, smgb, Zk  
set\_bottom\_margin\_parm, smgbp, Zl  
set\_clock, sclk, SC  
set\_color\_pair, scp, sp  
set\_foreground, setf, Sf  
set\_left\_margin, smgl, ML  
set\_left\_margin\_parm, smglp, Zm  
set\_right\_margin, smgr, MR  
set\_right\_margin\_parm, smgrp, Zn  
set\_tab, hts, st  
set\_top\_margin, smgt, Zo  
set\_top\_margin\_parm, smgtp, Zp  
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start\_bit\_image, sbim, Zq  
start\_char\_set\_def, scsd, Zr  
stop\_bit\_image, rbim, Zs  
stop\_char\_set\_def, rcsd, Zt  
subscript\_characters, subcs, Zu  
superscript\_characters, supcs, Zv  
tab, ht, ta  
these\_cause\_cr, docr, Zw  
to\_status\_line, tsl, ts  
tone, tone, TO  
underline\_char, uc, uc  
up\_half\_line, hu, hu  
user0, u0, u0  
user1, u1, u1  
user2, u2, u2  
user3, u3, u3  
user4, u4, u4  
user5, u5, u5  
user6, u6, u6



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user8, u8, u8  
user9, u9, u9  
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xoff\_character, xoffc, XF  
xon\_character, xonc, XN  
zero\_motion, zerom, Zx  
alt\_scancode\_esc, scesa, S8  
bit\_image\_carriage\_return, bicr, Yv  
bit\_image\_newline, binel, Zz  
bit\_image\_repeat, birep, Xy  
char\_set\_names, csnm, Zy  
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define\_bit\_image\_region, defbi, Yx  
device\_type, devt, dv  
display\_pc\_char, dispch, S1  
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enter\_pc\_charset\_mode, smpch, S2  
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req\_mouse\_pos, reqmp, RQ  
scancode\_escape, scesc, S7  
set0\_des\_seq, s0ds, s0  
set1\_des\_seq, s1ds, s1  
set2\_des\_seq, s2ds, s2  
set3\_des\_seq, s3ds, s3  
set\_a\_background, setab, AB  
set\_a\_foreground, setaf, AF  
set\_color\_band, setcolor, Yz  
set\_lr\_margin, smglr, ML  
set\_page\_length, slines, YZ  
set\_tb\_margin, smgtb, MT  
enter\_horizontal\_hl\_mode, ehhl, Xh  
enter\_left\_hl\_mode, elhl, Xl  
enter\_low\_hl\_mode, elohl, Xo  
enter\_right\_hl\_mode, erhl, Xr  
enter\_top\_hl\_mode, ethl, Xt  
enter\_vertical\_hl\_mode, evhl, Xv  
set\_a\_attributes, sgr1, sA  
set\_pglen\_inch, slength, sL

Found in path(s):

\* /opt/cola/permits/1258291790\_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utis/capabilities.txt

# 1.618 git 1.8.3.1-23.el7\_8

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## 1.620 Im-sensors 3.4.0

## 8.20160601gitf9185e5.e17

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That's all there is to it!

Here is a list of the main contributors to lm-sensors version 3.

\* Frodo Looijaard

Original author of libsensors, sensors-detect, sensors and isadump.

\* Merlin Hughes

Original author of sensord.

\* Bob Schlaermann

Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.

\* Mark M. Hoffman

Many improvements to the libsensors configuration file scanner.

\* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.

Many optimizations in libsensors and sensors.

Configuration file converter.

Rewrite of sensors-detect.

Support for multiple configuration files in libsensors.

# 1.621 rank-eval-client 7.16.3

## 1.621.1 Available under license :

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compiler/cpp/src/generate/t\_perl\_generator.cc  
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compiler/cpp/src/generate/t\_py\_generator.cc  
compiler/cpp/src/generate/t\_rb\_generator.cc  
compiler/cpp/src/generate/t\_st\_generator.cc  
compiler/cpp/src/generate/t\_xsd\_generator.cc  
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/thrift.ll  
compiler/cpp/src/thrift.yy  
lib/csharp/src/Protocol/TBinaryProtocol.cs  
lib/csharp/src/Protocol/TField.cs  
lib/csharp/src/Protocol/TList.cs  
lib/csharp/src/Protocol/TMap.cs  
lib/csharp/src/Protocol/TMessage.cs  
lib/csharp/src/Protocol/TMessageType.cs  
lib/csharp/src/Protocol/TProtocol.cs  
lib/csharp/src/Protocol/TProtocolException.cs  
lib/csharp/src/Protocol/TProtocolFactory.cs  
lib/csharp/src/Protocol/TProtocolUtil.cs  
lib/csharp/src/Protocol/TSet.cs  
lib/csharp/src/Protocol/TStruct.cs  
lib/csharp/src/Protocol/TType.cs  
lib/csharp/src/Server/TServer.cs  
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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That's all there is to it!

```
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```

```
# Get modification time of a file or directory and pretty-print it.
```

```
scriptversion=2010-08-21.06; # UTC
```

```
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```

```
# written by Ulrich Drepper <drepper@gnu.ai.mit.edu>, June 1995
```

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```

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```

```
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## 1.626 libpng 1.6.37

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```

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## 1.628 icu 50.2 4.e17\_7

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```
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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```

```
## Commands to generate dependency files
```

```

GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%. $(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%. $(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*/g" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"

```

```
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \  
| sed \"s/($*)\.o[ :]*^/1.o $@ :/g\" > $@; \  
[ -s $@ ] || rm -f $@'
```

```
## Versioned libraries rules
```

```
%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}  
$(RM) $@ && ln -s ${<F} $@  
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}  
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@
```

```
## End FreeBSD-specific setup
```

# 1.629 pkg-config 0.27.1 4.e17

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Version 2, June 1991

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## 1.632 jackson 2.10.4

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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.

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.

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.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<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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This library is free software; you can redistribute it and/or  
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Also add information on how to contact you by electronic and paper mail.

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

That's all there is to it!  
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@c  
@c %\*\*start of header

@c All text is ignored before the setfilename.  
@setfilename LGPL.info

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@sp 1  
@center Preamble  
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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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You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices

that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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.

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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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The modified work must itself be a software library.

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

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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.)

@end enumerate

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.

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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.

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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.

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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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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:

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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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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.

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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.

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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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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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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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@t{

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@c @bye

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```

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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!

# 1.638 psych 2.0.17

## 1.638.1 Available under license :

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# 1.639 minitest 5.8.3

## 1.639.1 Available under license :

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# more details.

Found in path(s):

\* /opt/cola/permits/1270866098\_1644852329.82/0/minitest-5-8-3-gem/data-tar-gz/lib/minitest/benchmark.rb

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

= minitest/{unit,spec,mock,benchmark}

home :: <https://github.com/seattlerb/minitest>

bugs :: <https://github.com/seattlerb/minitest/issues>

rdoc :: <http://docs.seattlerb.org/minitest>

vim :: <https://github.com/sunaku/vim-ruby-minitest>

emacs:: <https://github.com/arthurnn/minitest-emacs>

== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were allowed to choose our testing frameworks. Kirk Haines and I were paired up and we cracked open the code for a few test frameworks...

I MUST say that minitest is *very* readable / understandable compared to the 'other two' options we looked at. Nicely done and thank you for helping us keep our mental sanity."

-- Wayne E. Seguin

minitest/unit is a small and incredibly fast unit testing framework. It provides a rich set of assertions to make your tests clean and readable.

minitest/spec is a functionally complete spec engine. It hooks onto minitest/unit and seamlessly bridges test assertions over to spec expectations.

minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential

one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too. :P

minitest/unit is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply.

== FEATURES/PROBLEMS:

- \* minitest/autorun - the easy and explicit way to run all your tests.
- \* minitest/unit - a very fast, simple, and clean test system.
- \* minitest/spec - a very fast, simple, and clean spec system.
- \* minitest/mock - a simple and clean mock/stub system.
- \* minitest/benchmark - an awesome way to assert your algorithm's performance.
- \* minitest/pride - show your pride in testing!
- \* Incredibly small and fast runner, but no bells and whistles.

== RATIONALE:

See `design_rationale.rb` to see how specs and tests work in minitest.

== SYNOPSIS:

Given that you'd like to test the following class:

```
class Meme
```

```
def i_can_has_cheezburger?  
  "OHAI!"  
end
```

```
def will_it_blend?  
  "YES!"  
end  
end
```

=== Unit tests

Define your tests as methods beginning with `test\_`.

```
require "minitest/autorun"  
  
class TestMeme < Minitest::Test  
  def setup  
    @meme = Meme.new  
  end  
  
  def test_that_kitty_can_eat  
    assert_equal "OHAI!", @meme.i_can_has_cheezburger?  
  end  
  
  def test_that_it_will_not_blend  
    refute_match /^no/i, @meme.will_it_blend?  
  end  
  
  def test_that_will_be_skipped  
    skip "test this later"  
  end  
end
```

=== Specs

```
require "minitest/autorun"  
  
describe Meme do  
  before do  
    @meme = Meme.new  
  end  
  
  describe "when asked about cheeseburgers" do  
    it "must respond positively" do  
      @meme.i_can_has_cheezburger?.must_equal "OHAI!"  
    end  
  end  
end
```

```

describe "when asked about blending possibilities" do
  it "won't say no" do
    @meme.will_it_blend?.wont_match /^no/i
  end
end
end
end

```

For matchers support check out:

<https://github.com/wojtekmach/minitest-matchers>  
[https://github.com/rmm5t/minitest-matchers\\_vaccine](https://github.com/rmm5t/minitest-matchers_vaccine)

=== Benchmarks

Add benchmarks to your tests.

```

# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV["BENCH"]

class TestMeme < Minitest::Benchmark
  # Override self.bench_range or default range is [1, 10, 100, 1_000, 10_000]
  def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
      @obj.my_algorithm(n)
    end
  end
end
end

```

Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match `/Bench(mark)?$/`.

```

describe "Meme Benchmark" do
  if ENV["BENCH"] then
    bench_performance_linear "my_algorithm", 0.9999 do |n|
      100.times do
        @obj.my_algorithm(n)
      end
    end
  end
end
end
end

```

outputs something like:

```

# Running benchmarks:

TestBlah 100 1000 10000

```

```
bench_my_algorithm 0.006167 0.079279 0.786993
bench_other_algorithm 0.061679 0.792797 7.869932
```

Output is tab-delimited to make it easy to paste into a spreadsheet.

=== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at <http://www.martinfowler.com/bliki/TestDouble.html>:

"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

```
class MemeAsker
  def initialize(meme)
    @meme = meme
  end

  def ask(question)
    method = question.tr(" ", "_") + "?"
    @meme.__send__(method)
  end
end

require "minitest/autorun"

describe MemeAsker, :ask do
  describe "when passed an unpunctuated question" do
    it "should invoke the appropriate predicate method on the meme" do
      @meme = Minitest::Mock.new
      @meme_asker = MemeAsker.new @meme
      @meme.expect :will_it_blend?, :return_value

      @meme_asker.ask "will it blend"

      @meme.verify
    end
  end
end
```

**\*\*Multi-threading and Mocks\*\***

Minitest mocks do not support multi-threading if it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

```

def test_called_inside_thread
  called = false
  pr = Proc.new { called = true }
  thread = Thread.new(&pr)
  thread.join
  assert called, "proc not called"
end

```

=== Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at <http://www.martinfowler.com/bliki/TestDouble.html>:

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of the block.

```

def test_stale_eh
  obj_under_test = Something.new

  refute obj_under_test.stale?

  Time.stub :now, Time.at(0) do # stub goes away once the block is done
    assert obj_under_test.stale?
  end
end

```

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

```

def obj_under_test.fake_method
  ...
end

```

=== Running Your Tests

Ideally, you'll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don't have to:

```

% ruby -Ilib:test test/minitest/test_minitest_unit.rb
Run options: --seed 37685

```

```

# Running:

```

```

..... (etc)

```

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with `--help`:

```
% ruby -Ilib:test test/minitest/test_minitest_unit.rb --help
minitest options:
-h, --help          Display this help.
-s, --seed SEED     Sets random seed
-v, --verbose       Verbose. Show progress processing files.
-n, --name PATTERN  Filter run on /pattern/ or string.
```

Known extensions: pride, autotest

```
-p, --pride          Pride. Show your testing pride!
-a, --autotest       Connect to autotest server.
```

== Writing Extensions

To define a plugin, add a file named `minitest/XXX_plugin.rb` to your project/gem. That file must be discoverable via ruby's `LOAD_PATH` (via `rubygems` or otherwise). Minitest will find and require that file using `Gem.find_files`. It will then try to call `plugin_XXX_init` during startup. The option processor will also try to call `plugin_XXX_options` passing the `OptionParser` instance and the current options hash. This lets you register your own command-line options. Here's a totally bogus example:

```
# minitest/bogus_plugin.rb

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
      options[:myci_addr] = get_myci_addr
      options[:myci_port] = get_myci_port
    end
  end

  def self.plugin_bogus_init(options)
    self.reporter << MyCI.new(options) if options[:myci]
  end
end
```

=== Adding custom reporters



Minitest uses composite reporter to output test results using multiple reporter instances. You can add new reporters to the composite during the `init_plugins` phase. As we saw in `+plugin_bonus_init+` above, you simply add your reporter instance to the composite via `+<<+`.

`+AbstractReporter+` defines the API for reporters. You may subclass it and override any method you want to achieve your desired behavior.

`start` :: Called when the run has started.  
`record` :: Called for each result, passed or otherwise.  
`report` :: Called at the end of the run.  
`passed?` :: Called to see if you detected any problems.

Using our example above, here is how we might implement `MyCI`:

```
# minitest/bogus_plugin.rb

module Minitest
  class MyCI < AbstractReporter
    attr_accessor :results, :addr, :port

    def initialize options
      self.results = []
      self.addr = options[:myci_addr]
      self.port = options[:myci_port]
    end

    def record result
      self.results << result
    end

    def report
      CI.connect(addr, port).send_results self.results
    end

    # code from above...
  end
end
```

== FAQ

=== How to test SimpleDelegates?

The following implementation and test:

```
class Worker < SimpleDelegator
  def work
  end
end
```

```

end

describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do
    @worker.must_respond_to :work
  end
end

```

outputs a failure:

```

1) Failure:
Worker#test_0001_must respond to work [bug11.rb:16]:
Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.

```

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject. Expectations are put on Object (one level down) so the Worker (SimpleDelegate) hits `method\_missing` and delegates down to the `Object.new` instance. That object doesn't respond to work so the test fails.

You can bypass `SimpleDelegate#method\_missing` by extending the worker with `Minitest::Expectations`. You can either do that in your setup at the instance level, like:

```

before do
  @worker = Worker.new(Object.new)
  @worker.extend Minitest::Expectations
end

```

or you can extend the Worker class (within the test file!), like:

```

class Worker
  include ::Minitest::Expectations
end

```

=== How to share code across test classes?

Use a module. That's exactly what they're for:

```

module UsefulStuff
  def useful_method
    # ...
  end
end

```

```

describe Blah do
  include UsefulStuff

  def test_whatever
    # useful_method available here
  end
end
end

```

Remember, `describe` simply creates test classes. It's just ruby at the end of the day and all your normal Good Ruby Rules (tm) apply. If you want to extend your test using setup/teardown via a module, just make sure you ALWAYS call super. before/after automatically call super for you, so make sure you don't do it twice.

=== Why am I seeing `uninitialized constant MiniTest::Test (NameError)`?

Are you running the test with Bundler (e.g. via `bundle exec`)? If so, in order to require minitest, you must first add the `gem 'minitest'` to your Gemfile and run `bundle`. Once it's installed, you should be able to require minitest and run your tests.

== Prominent Projects using Minitest:

- \* arel
- \* journey
- \* mime-types
- \* nokogiri
- \* rails (active\_support et al)
- \* rake
- \* rdoc
- \* ...and of course, everything from seattle.rb...

== Known Extensions:

- `capbara_minitest_spec` :: Bridge between Capybara RSpec matchers and Minitest::Spec expectations (e.g. `page.must_have_content("Title")`).
- `color_pound_spec_reporter` :: Test names print Ruby Object types in color with your Minitest Spec style tests.
- `minispec-metadata` :: Metadata for describe/it blocks & CLI tag filter. E.g. `it "requires JS driver", js: true do` &`  
`ruby test.rb --tag js` runs tests tagged :js.`
- `minitest-around` :: Around block for minitest. An alternative to setup/teardown dance.
- `minitest-autotest` :: autotest is a continous testing facility meant to be used during development.
- `minitest-bacon` :: minitest-bacon extends minitest with bacon-like

functionality.

minitest-bang :: Adds support for RSpec-style let! to immediately invoke let statements before each test.

minitest-bisect :: Helps you isolate and debug random test failures.

minitest-blink1\_reporter :: Display test results with a Blink1.

minitest-capistrano :: Assertions and expectations for testing Capistrano recipes.

minitest-capybara :: Capybara matchers support for minitest unit and spec.

minitest-chef-handler :: Run Minitest suites as Chef report handlers

minitest-ci :: CI reporter plugin for Minitest.

minitest-context :: Defines contexts for code reuse in Minitest specs that share common expectations.

minitest-debugger :: Wraps assert so failed assertions drop into the ruby debugger.

minitest-display :: Patches Minitest to allow for an easily configurable output.

minitest-documentation :: Minimal documentation format inspired by rspec's.

minitest-doc\_reporter :: Detailed output inspired by rspec's documentation format.

minitest-emoji :: Print out emoji for your test passes, fails, and skips.

minitest-english :: Semantically symmetric aliases for assertions and expectations.

minitest-excludes :: Clean API for excluding certain tests you don't want to run under certain conditions.

minitest-fail-fast :: Reimplements RSpec's "fail fast" feature

minitest-filecontent :: Support unit tests with expectation results in files. Differing results will be stored again in files.

minitest-filesystem :: Adds assertion and expectation to help testing filesystem contents.

minitest-firemock :: Makes your Minitest mocks more resilient.

minitest-focus :: Focus on one test at a time.

minitest-gcstats :: A minitest plugin that adds a report of the top tests by number of objects allocated.

minitest-great\_expectations :: Generally useful additions to minitest's assertions and expectations.

minitest-growl :: Test notifier for minitest via growl.

minitest-happy :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!

minitest-hooks :: Around and before\_all/after\_all/around\_all hooks

minitest-implicit-subject :: Implicit declaration of the test subject.

minitest-instrument :: Instrument ActiveSupport::Notifications when test method is executed.

minitest-instrument-db :: Store information about speed of test execution provided by minitest-instrument in database.

minitest-junit :: JUnit-style XML reporter for minitest.

minitest-libnotify :: Test notifier for minitest via libnotify.

minitest-line :: Run test at line number.

`minitest-logger`        :: Define `assert_log` and enable minitest to test log messages.  
                           Supports `Logger` and `Log4r::Logger`.

`minitest-macruby`        :: Provides extensions to minitest for macruby UI  
                           testing.

`minitest-matchers`        :: Adds support for RSpec-style matchers to  
                           minitest.

`minitest-matchers_vaccine` :: Adds assertions that adhere to the matcher spec,  
                           but without any expectation infections.

`minitest-metadata`        :: Annotate tests with metadata (key-value).

`minitest-mongoid`        :: Mongoid assertion matchers for Minitest.

`minitest-must_not`        :: Provides `must_not` as an alias for `wont` in  
                           Minitest.

`minitest-osx`            :: Reporter for the Mac OS X notification center.

`minitest-parallel_fork`    :: Fork-based parallelization

`minitest-parallel-db`    :: Run tests in parallel with a single database.

`minitest-power_assert`    :: PowerAssert for Minitest.

`minitest-predicates`     :: Adds support for `.predicate?` methods.

`minitest-profile`        :: List the 10 slowest tests in your suite.

`minitest-rails`            :: Minitest integration for Rails 3.x.

`minitest-rails-capybara`  :: Capybara integration for Minitest::Rails.

`minitest-reporters`       :: Create customizable Minitest output formats.

`minitest-rg`             :: Colored red/green output for Minitest.

`minitest-rspecmocks`     :: Use RSpec Mocks with Minitest.

`minitest-server`         :: `minitest-server` provides a client/server setup  
                           with your minitest process, allowing your test  
                           run to send its results directly to a handler.

`minitest-shared_description` :: Support for shared specs and shared spec  
                           subclasses

`minitest-should_syntax`    :: RSpec-style `+x.should == y+` assertions for  
                           Minitest.

`minitest-shouldify`       :: Adding all manner of `shoulds` to Minitest (bad  
                           idea)

`minitest-snail`            :: Print a list of tests that take too long

`minitest-spec-context`    :: Provides `rspec-ish` context method to  
                           Minitest::Spec.

`minitest-spec-expect`     :: Expect syntax for Minitest::Spec (e.g.  
                           `expect(sequences).to_include :celery_man`).

`minitest-spec-magic`      :: Minitest::Spec extensions for Rails and beyond.

`minitest-spec-rails`      :: Drop in Minitest::Spec superclass for  
                           ActiveSupport::TestCase.

`minitest-sprint`         :: Runs (Get it? It's fast!) your tests and makes  
                           it easier to rerun individual failures.

`minitest-stately`         :: Find leaking state between tests

`minitest-stub_any_instance` :: Stub any instance of a method on the given class  
                           for the duration of a block.

`minitest-stub-const`      :: Stub constants for the duration of a block.

`minitest-tags`            :: Add tags for minitest.

`minitest-unordered`       :: Adds a new assertion to minitest for checking the

contents of a collection, ignoring element order.

minitest-vcv :: Automatic cassette management with Minitest::Spec and VCR.

minitest\_owrapper :: Get tests results as a TestResult object.

minitest\_should :: Shoulda style syntax for minitest test::unit.

minitest\_tu\_shim :: Bridges between test/unit and minitest.

mongoid-minitest :: Minitest matchers for Mongoid.

pry-rescue :: A pry plugin w/ minitest support. See pry-rescue/minitest.rb.

rspec2minitest :: Easily translate any RSpec matchers to Minitest assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

- \* assay-minitest
- \* detroit-minitest
- \* em-minitest-spec
- \* flexmock-minitest
- \* guard-minitest
- \* guard-minitest-decisiv
- \* minitest-activemodel
- \* minitest-ar-assertions
- \* minitest-capybara-unit
- \* minitest-colorer
- \* minitest-deluxe
- \* minitest-extra-assertions
- \* minitest-rails-shoulda
- \* minitest-spec
- \* minitest-spec-should
- \* minitest-sugar
- \* spork-minitest

== REQUIREMENTS:

\* Ruby 1.8.7+. No magic is involved. I hope.

== INSTALL:

```
sudo gem install minitest
```

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically pull it in. If not, you'll need to do it yourself:

```
gem "minitest" # ensures you're using the gem, and not the built-in MT
require "minitest/autorun"
```

# ... usual testing stuffs ...

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but don't install the gem contents in the gem path. This messes up Gem.find\_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

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Found in path(s):

\* /opt/cola/permits/1270866098\_1644852329.82/0/minitest-5-8-3-gem/data-tar-gz/README.rdoc

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5055942 Photographic image reproduction device using digital halftoning to screen images allowing adjustable coarseness

5917614 Method and apparatus for error diffusion screening of images with improved smoothness in highlight and shadow regions

## 1.641 sys-mountinfo 0.4.1

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## 1.642 xz 5.2.2

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<li>Type mapping behavior may be customized by providing a {@link com.sun.jna.TypeMapper} for the {@link com.sun.jna.Library#OPTION\_TYPE\_MAPPER} option when initializing a library interface. See {@link com.sun.jna.win32.W32APITypeMapper} for an example which provides custom conversion of boolean and String types. You are free to use whatever types are convenient in your defined interfaces, but all custom types *must* provide a mapping to one of the basic or derived types listed above.

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- \* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/StructureWriteContext.java
- \* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/FromNativeConverter.java
- \* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/NativeMapped.java
- \* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/IntegerType.java
- \* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/NativeLong.java
- \* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/CallbackProxy.java
- \* /opt/cola/permits/1252774624\_1641970131.11/0/jna-5-10-0-sources-

```
jar/com/sun/jna/FunctionParameterContext.java
* /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-
jar/com/sun/jna/MethodParameterContext.java
* /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/ToNativeContext.java
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DMIDecode Python Extension Module shadows the DMIDecode utility

=====

DMIDecode Python Extension Module

=====

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// vim: ft=asciidoc

# 1.648 test 3.1.5

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Exceptions

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\* lib/test/unit/diff.rb: PSFL

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# 1.650 libproxy 0.4.11 11.el7

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

That's all there is to it!

## 1.651 json-glib 1.4.2 2.el7

## 1.652 libjpeg 6b

### 1.652.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

### 1.652.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net) to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

## DOCUMENTATION ROADMAP

=====

This file contains the following sections:

OVERVIEW        General description of JPEG and the IJG software.  
LEGAL ISSUES    Copyright, lack of warranty, terms of distribution.  
REFERENCES     Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
RELATED SOFTWARE Other stuff you should get.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO           Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc    How to configure and install the IJG software.  
usage.doc     Usage instructions for cjpeg, djpeg, jpegtran,  
              rdjpgcom, and wrjpgcom.  
\*.1            Unix-style man pages for programs (same info as usage.doc).  
wizard.doc    Advanced usage instructions for JPEG wizards only.  
change.log    Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc   How to use the JPEG library in your own programs.  
example.c     Sample code for calling the JPEG library.  
structure.doc Overview of the JPEG library's internal structure.  
filelist.doc   Road map of IJG files.  
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files `install.doc` and `usage.doc`. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly

the order listed) before diving into the code.

## OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products.

No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

## LEGAL ISSUES

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In plain English:

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3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that

"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

## REFERENCES

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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.



The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department

C-Cube Microsystems, Inc.

1778 McCarthy Blvd.

Milpitas, CA 95035

phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at

<ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from

<ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme

found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.

IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).

Instead, we recommend the JPEG design proposed by TIFF Technical Note #2

(Compression tag 7). Copies of this Note can be obtained from <ftp.sgi.com> or

from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision

of the TIFF spec will replace the 6.0 JPEG design with the Note's design.

Although IJG's own code does not support TIFF/JPEG, the free libtiff library

uses our library to implement TIFF/JPEG per the Note. libtiff is available

from <ftp://ftp.sgi.com/graphics/tiff/>.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet

address 192.48.96.9). The most recent released version can always be found

there in directory <graphics/jpeg>. This particular version will be archived

as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have

direct Internet access, UUNET's archives are also available via UUCP; contact

[help@uunet.uu.net](mailto:help@uunet.uu.net) for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only

<ftp.uu.net> is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from

the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or

on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12

"JPEG Tools". Again, these versions may sometimes lag behind the <ftp.uu.net>

release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of

general information about JPEG. It is updated constantly and therefore is

not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

## RELATED SOFTWARE

=====

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

## FILE FORMAT WARS

=====

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has

become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).

## 1.653 libxv 1.0.11 1.e17

### 1.653.1 Available under license :

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# 1.654 pango 1.42.4 4.el7\_7

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Version 2, June 1991

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```
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# 1.664 gtk 3.22.30 5.e17

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@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with@dots{ }Texts." line with this:

@smallexample

@group

with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.

@end group

@end smallexample

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@c Local Variables:

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

@c End:

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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.]

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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.

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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.)

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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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.

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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.

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.

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

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.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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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  
Ty Coon, President of Vice

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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@appendixsubsec Preamble

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This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these 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 other code 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.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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 @dfn{Lesser} General Public License because it does @emph{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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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@item

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each licensee is addressed as ``you".

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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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.

@item

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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The modified work must itself be a software library.

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

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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.)

@end enumerate

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.

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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.

@item

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.

@item

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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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:

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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.)

@item

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.

@item

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.

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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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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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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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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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@appendixsubsec 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.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end smallexample

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

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```
@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

That's all there is to it!  
(This file is under construction.) `-*- text -*-`

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, `nickc@redhat.com` and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in `messages.c`, `input-file.c`, `write.c`.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the `coff` and `b.out` backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for `m680[34]0` & `cpu32`, considerable work on `i960` including a `coff` port (including considerable amounts of reverse engineering), a `sparc` opcode file rewrite, `decstation`, `rs6000`, and `hp300hpux` host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner

of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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# 1.666 elasticsearch-plugin-classloader 7.16.3

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VERSION 1, OCTOBER 16, 2018

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core/src/java/org/apache/lucene/util/compress/LZ4.java is a Java implementation of the LZ4 (<https://github.com/lz4/lz4/tree/dev/lib>) compression format for Lucene's DataInput/DataOutput abstractions.

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To do so, attach the following notices to the program. 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 program'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.

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

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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

Upstream-Name: liblz4

Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

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

Files: \*

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The full text of license: <https://github.com/Cyan4973/lz4/blob/master/lib/LICENSE>

# 1.671 cpio 2.11-28.el7

## 1.671.1 Available under license :

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Version 3, 29 June 2007

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## xwd v1.0.7

### xwd utility

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include/GL/glxext.h  
include/GL/wglxext.h :

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

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```
Gnomovision version 69, Copyright (C) year name of author
```

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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The hypothetical commands `show w' and `show c' should show the appropriate  
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be called something other than `show w' and `show c'; they could even be  
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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

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## 1.677 coverage 3.6b3

### 1.677.1 Available under license :

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Metadata-Version: 1.1

Name: coverage

Version: 3.6b3

Summary: Code coverage measurement for Python

Home-page: <http://nedbatchelder.com/code/coverage/3.6b3>

Author: Ned Batchelder and others

Author-email: [ned@nedbatchelder.com](mailto:ned@nedbatchelder.com)

License: BSD

Description: Coverage.py measures code coverage, typically during test execution. It uses  
the code analysis tools and tracing hooks provided in the Python standard  
library to determine which lines are executable, and which have been executed.

Coverage.py runs on Pythons 2.3 through 3.3, and PyPy 1.9.

Documentation is at [nedbatchelder.com](http://nedbatchelder.com) <<http://nedbatchelder.com/code/coverage/3.6b3>>`. Code repository  
and issue

tracker are at [bitbucket.org](http://bitbucket.org) <<http://bitbucket.org/ned/coveragepy>>`.

New in 3.6: ``--fail-under``, and >20 bugs closed.

New in 3.5: Branch coverage exclusions, keyboard shortcuts in HTML report.

New in 3.4: Better control over source to measure, and unexecuted files can be reported.

New in 3.3: .coveragerc files.

New in 3.2: Branch coverage!

Keywords: code coverage testing

Platform: UNKNOWN

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 3

Classifier: Topic :: Software Development :: Quality Assurance

Classifier: Topic :: Software Development :: Testing

Classifier: Development Status :: 4 - Beta

Found in path(s):

\* /opt/cola/permits/1154616852\_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/coverage.egg-info/PKG-INFO

\* /opt/cola/permits/1154616852\_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/PKG-INFO

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/\*!

\* jQuery JavaScript Library v1.4.3

\* <http://jquery.com/>

\*

\* Copyright 2010, John Resig

\* Dual licensed under the MIT or GPL Version 2 licenses.

\* <http://jquery.org/license>

\*

\* Includes Sizzle.js

\* <http://sizzlejs.com/>

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\*

\* Date: Thu Oct 14 23:10:06 2010 -0400

\*/

Found in path(s):

\* /opt/cola/permits/1154616852\_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-

3.6b3/coverage/htmlfiles/jquery-1.4.3.min.js



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```

Found in path(s):

```
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/coverage/__init__.py
```

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Found in path(s):

```
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/setup.py
```

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```
/* Copyright (c) 2010  
* @author Laurence Wheway  
* Dual licensed under the MIT (http://www.opensource.org/licenses/mit-license.php)  
* and GPL (http://www.opensource.org/licenses/gpl-license.php) licenses.  
*  
* @version 1.2.0  
*/
```

Found in path(s):

```
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/coverage/htmlfiles/jquery.isonscreen.js
```

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```
/*  
* jQuery Hotkeys Plugin  
* Copyright 2010, John Resig  
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*  
* Based upon the plugin by Tzury Bar Yochay:  
* http://github.com/tzuryby/hotkeys  
*  
* Original idea by:  
* Binny V A, http://www.openjs.com/scripts/events/keyboard\_shortcuts/  
*/
```

Found in path(s):

```
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/coverage/htmlfiles/jquery.hotkeys.js
```

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```
/**
```

```
* QUnit - A JavaScript Unit Testing Framework
```

```
*
```

```
* http://docs.jquery.com/QUnit
```

```
*
```

```
* Copyright (c) 2011 John Resig, Jörn Zaefferer
```

```
* Dual licensed under the MIT (MIT-LICENSE.txt)
```

```
* or GPL (GPL-LICENSE.txt) licenses.
```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/test/qunit/qunit.css
```

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```
/**
```

```
* QUnit - A JavaScript Unit Testing Framework
```

```
*
```

```
* http://docs.jquery.com/QUnit
```

```
*
```

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```

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```

```
*/
```

```
/**
```

```
* jsDump
```

```
* Copyright (c) 2008 Ariel Flesler - aflesler\(at\)gmail\(dot\)com | http://flesler.blogspot.com
```

```
* Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
```

```
* Date: 5/15/2008
```

```
* @projectDescription Advanced and extensible data dumping for Javascript.
```

```
* @version 1.0.0
```

```
* @author Ariel Flesler
```

```
* @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
```

```
*/
```

```
/*
```

```
* Javascript Diff Algorithm
```

```
* By John Resig (http://ejohn.org/)
```

```
* Modified by Chu Alan "sprite"
```

```
*
```

```
* Released under the MIT license.
```

```
*
```

```
* More Info:
```

```
* http://ejohn.org/projects/javascript-diff-algorithm/
```

```
*
```

```
* Usage: QUnit.diff(expected, actual)
```

```
*
* QUnit.diff("the quick brown fox jumped over", "the quick fox jumps over") == "the quick <del>brown </del> fox
<del>jumped </del><ins>jumps </ins> over"
*/
```

Found in path(s):

```
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/test/qunit/qunit.js
```

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```
/*
```

```
* jQuery Templates Plugin 1.0.0pre
* http://github.com/jquery/jquery-tmpl
* Requires jQuery 1.4.2
*
* Copyright Software Freedom Conservancy, Inc.
* Dual licensed under the MIT or GPL Version 2 licenses.
* http://jquery.org/license
*/
```

Found in path(s):

```
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-
3.6b3/test/qunit/jquery.templ.min.js
```

## 1.678 python-requests 2.18.4

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## 1.680 asm-tree 7.2

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```

Found in path(s):

```
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/ModuleExportNode.java  
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-jar/org/objectweb/asm/tree/Util.java  
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/IncInsnNode.java  
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/ModuleOpenNode.java  
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java  
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/InsnNode.java  
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-
```

jar/org/objectweb/asm/tree/ModuleRequireNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/AbstractInsnNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/AnnotationNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/TryCatchBlockNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/ClassNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/ModuleNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/InnerClassNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/IntInsnNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/TypeAnnotationNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/TableSwitchInsnNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-jar/org/objectweb/asm/tree/InsnList.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/LabelNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/ParameterNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/FieldInsnNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/ModuleProvideNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/MethodNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/FieldNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/TypeInsnNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/LineNumberNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/LocalVariableNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/LdcInsnNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/MethodInsnNode.java  
\* /opt/cola/permits/1135936009\_1613638842.01/0/asm-tree-7-2-sources-4-  
jar/org/objectweb/asm/tree/VarInsnNode.java

```
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-
jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-
jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
No license file was found, but licenses were detected in source scan.
```

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Found in path(s):

```
* /opt/cola/permits/1135936009_1613638842.01/0/asm-tree-7-2-sources-4-jar/org/objectweb/asm/tree/package.html
```

# 1.681 util-linux 2.23.2-65.el7\_9.1

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- \*/

```
NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
```

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```
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```

```
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```

```
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```
WEV @@ WEV[B "1
```

```
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```

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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That's all there is to it!

# 1.687 sysfsutils 2.1.0 16.el7

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## 1.688 rspec-support 3.5.0

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'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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(This file is under construction.) -\*- text -\*-

If you've contributed to gas and your name isn't listed here, it is  
not meant as a slight. I just don't know about it. Email me,  
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into

the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for

some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added `.include` support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. `jsr`), while synthetic instructions remained shrinkable (`jbsr`). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's `mips-tfile` program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the `binutils` releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made `gas` able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (`sparc`, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the `binutils` to `openVMS/Alpha`.

Steve Haworth contributed the support for the Texas Instruction c30 (`tms320c30`).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error



checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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## 1.692 jopt-simple 5.0.2

## 1.693 lucene-backward-codecs 8.10.1

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`analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`

`analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

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The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in `stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt`. See <http://project.carrot2.org/license.html>.

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# 1.695 ohai 8.20.0

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