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Florence Peak (version 5.0) 5.0.1.2

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Used by: Xalan-Java 2
The license above also applies to the jar file
xml-apis.jar - Xerces-Java 2 XML Parser.
Source: http://xerces.apache.org/
Used by: Xalan-Java 2 and release copy of Xerces-Java 2

The following license applies to the included files:
tools/ant.jar
tools/antRun
tools/antRun.bat
Source: http://ant.apache.org/
Used By: Xalan's build process: java/build.xml and test/build.xml
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Source: http://jakarta.apache.org/bcel
Used By: XSLTC component of xml-xalan/java

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jakarta-regexp-1.2.jar from Apache Jakarta.
Source: http://jakarta.apache.org/regexp
Used By: BCEL.jar which is used by XSLTC component of xml-xalan/java

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1.4 jsr311-api 1.1.1

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1.5 protobuf-java-util 3.7.1

1.6 log-rotate 3.8.6-17.el7

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1.11 opensaml-messaging-api 3.3.0

1.12 lshw B.02.18 13.el7

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1.14 jline-style 3.6.0

1.15 libxslt 1.1.28-5.el7.0atomix1

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    Found in path(s):
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    jar/io/swagger/parser/util/SwaggerDeserializer.java
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1.17 elasticsearch-x-content 6.5.4

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* Cordys R&D BV

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1.20 alsa 1.1.8 1.el7

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 * @author twall
 */
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1.25 jackson-databind 2.9.3

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1.26 elasticsearch-rest-client 6.5.4

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1.28 reactor-netty 0.7.6

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1.29 zkclient 0.10

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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 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.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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

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

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

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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.

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permitted, and provided that you do these two things:

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"http://en.wikipedia.org/wiki/BSD_licenses", description = "Revised BSD License")
public @interface BSD_3_Clause {

}
CastException
out portions of the Software.

println$subject to the following

conditions:

toString()Ljava/io/PrintStream;Ljava/lang/String;()Ljava/lang/String;(Ljava/lang/String;)V((Ljava/lang/String;)Ljava/lang/String;)V&((Ljava/lang/String;)Ljava/lang/String;)(Ljava/lang/String;)(Ljava/lang/String;)Ljava/lang/StringBuilder;)3%4-5+6891:2;

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package aQute.bnd.annotation.licenses;

import aQute.bnd.annotation.headers.*;

/**
 * An annotation to indicate that the type depends on the Eclipse Public License 1.0. Applying this annotation will add a Bundle-License clause.
 */

@BundleLicense(name = "http://opensource.org/licenses/EPL-1.0", link = "http://www.eclipse.org/legal/epl-v10.html", description = "Eclipse Public License 1.0")
public @interface EPL_1_0 {
}

package aQute.bnd.annotation.licenses;

import aQute.bnd.annotation.headers.*;

/**
 * An annotation to indicate that the type depends on the MIT License. Applying this annotation will add a Bundle-License clause.
 */

@BundleLicense(name = "http://opensource.org/licenses/MIT", link = "http://en.wikipedia.org/wiki/MIT_License",
description = "MIT License")
public @interface MIT_1_0 {}

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headerName$VALUES-
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package aQute.bnd.annotation.licenses;
import aQute.bnd.annotation.headers.*;

import aQute.bnd.annotation.headers.*;

/**
 * An annotation to indicate that the type depends on the GNU General Public
 * License 3.0. Applying this annotation will add a Bundle-License clause.
 */

@BundleLicense(name = "http://opensource.org/licenses/GPL-3.0", link = "http://www.gnu.org/licenses/gpl-3.0.html", description = "The GNU General Public License version 3 (GPLv3)"
public @interface GPL_3_0 {}
/**
 * An annotation to indicate that the type depends on the Simplified BSD or FreeBSD License. Applying this annotation will add a Bundle-License clause.
 */
@BundleLicense(name = "http://opensource.org/licenses/BSD-2-Clause", link = "http://en.wikipedia.org/wiki/BSD_licenses", description = "Simplified BSD or FreeBSD License")
public @interface BSD_2_Clause {}

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Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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package aQute.bnd.annotation.licenses;

import aQute.bnd.annotation.headers.*;

/**<*
 * An annotation to indicate that the type depends on the Mozilla Public License
 * 2.0. Applying this annotation will add a Bundle-License clause.
 */
@BundleLicense(name = "http://opensource.org/licenses/MPL-2.0", link = "http://www.mozilla.org/MPL/2.0/",
description = "Mozilla Public License 2.0")
public @interface MPL_2_0 {}
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**************************************************************************

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import aQute.bnd.annotation.headers.*;

/**
 * An annotation to indicate that the type depends on the GNU Lesser Public
 * License 2.1. Applying this annotation will add a Bundle-License clause.
 */

@BundleLicense(name = "http://opensource.org/licenses/LGPL-2.1", link = "http://www.gnu.org/licenses/lgpl-2.1.html", description = "GNU Lesser General Public License, version 2.1")
public @interface LGPL_2_1 {

}

SourceFile BSD_2_Clause.java

@BundleLicense(name = "http://opensource.org/licenses/BSD-2-Clause", link = "http://en.wikipedia.org/wiki/BSD_Licenses", description = "Simplified BSD or FreeBSD License")
public @interface BSD_2_Clause {

}

SourceFile MIT_1_0.java

@BundleLicense(name = "http://opensource.org/licenses/MIT", link = "http://en.wikipedia.org/wiki/MIT_License", description = "MIT License")
public @interface MIT_1_0 {

}
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Joseph Reagle <site-policy@w3.org>
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/**
 * An annotation to indicate that the type depends on the GNU General Public
 * License 2.0. Applying this annotation will add a Bundle-License clause.
 */

@BundleLicense(name = "http://opensource.org/licenses/GPL-2.0", link = "http://www.gnu.org/licenses/gpl-2.0.html", description = "The GNU General Public License version 2 (GPLv2)")
public @interface GPL_2_0 {}
rWS does not support
clone()S/Kjava/lang/RuntimeException10$org/apache/maven/model/InputLocation/030409020MNjava/lang/Object
java/io/Serializablejava/lang/Cloneable+org/apache/maven/model/InputLocationTracker$java/lang/CloneNotSupportedException
put8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;java/util/Listadd(Ljava/lang/Object;)ZaddAll(Ljava/util/Collection;Z)Ljava/util/Map;getClass()Ljava/lang/Class;java/lang/Classappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;toString	initCause,(Ljava/lang/Throwable;)Ljava/lang/Throwable;
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BCDEHWSA/*/!BCDEYSA/**BCDEYSY#BCDEZ[AI**Y$BCDE]AI**Y
*BCDE7^_SA/*%BCDE'SA/*&BCDEaKAD*+WB
CDEL0bKA>*+B
CDE10cdAq!/+**Y(*+,)WB!'#C #DE#HV#efgKA>*+!B
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

```java
import java.lang.annotation.*;

/**
 * The Bundle-License header provides an optional machine readable form of
 * license information. The purpose of this header is to automate some of the
 * license processing required by many organizations like for example license
 * acceptance before a bundle is used. The header is structured to provide the
 * use of unique license naming to merge acceptance requests, as well as links
 * to human readable information about the included licenses. This header is
 * purely informational for management agents and must not be processed by the
 * OSGi Framework.
 *<p>
 * The syntax for this header is as follows:
 *<p>
 *<pre>
 * Bundle-License ::= &lt;&lt;EXTERNAL&gt;&gt; |
 * ( license ( , license ) * )
 * license ::= name ( ; license-attr ) *
 * license-attr ::= description | link
 * description ::= description = string
 * link ::= link = &lt;url&gt;
 *</pre>
 *<p>
 * This header has the following attributes:
 *<ul>
 *<li><ul>
 *<li>name  Provides a globally unique name for this license, preferably world
 * wide, but it should at least be unique with respect to the other clauses. The
 * magic name &lt;&lt;EXTERNAL&gt;&gt; is used to indicate that this artifact does not
 * contain any license information but that licensing information is provided in
 * some other way. This is also the default contents of this header.
 *<li>Clients of this bundle can assume that licenses with the same name refer
 * to the same license. This can for example be used to minimize the click
 */```
* through licenses. This name should be the canonical URL of the license, it
* must not be localized by the translator. This URL does not have to exist but
* must not be used for later versions of the license. It is recommended to use
* URLS from <a href="http://opensource.org/">Open Source Initiative</a>. Other
* licenses should use the following structure, but this is not mandated:
* 
* <pre>
* http://<domain-name>/licenses/
*   <license-name>-<version>.<extension>
* </pre>
* <li>description  (optional) Provide the description of the license. This is
* a short description that is usable in a list box on a UI to select more
* information about the license.
* <li>link  (optional) Provide a URL to a page that defines or explains the
* license. If this link is absent, the name field is used for this purpose. The
* URL is relative to the root of the bundle. That is, it is possible to refer
* to a file inside the bundle.
* </ul>
* If the Bundle-License statement is absent, then this does not mean that the
* bundle is not licensed. Licensing could be handled outside the bundle and the
* [@code &lt;&lt;EXTERNA1&gt;&gt;] form should be assumed. This header is informational and
* may not have any legal bearing. Consult a lawyer before using this header to
* automate licensing processing.
* <p>
* A number of licenses have been predefined, {@link ASL_2_0},
* [@link BSD_2_Clause], {@link BSD_3_Clause}, {@link CDDL_1_0}, {@link EPL_1_0}, {@link GPL_2_0},
* [@link GPL_3_0], {@link LGPL_2_1}, {@link MIT_1_0},
* [@link MPL_2_0].
* */
@Retention(RetentionPolicy.CLASS)
@Target({
ElementType.ANNOTATION_TYPE, ElementType.TYPE
})
public @interface BundleLicense {
/**
 * The name of the license, should refer to <a
 * href="http://opensource.org/">Open Source Initiative</a>
 */
String name();

/**
 * A short description of the license
 */
String description() default "";

/**
 * A URI to the license text. This maybe relative, in that case it is from
 * the corresponding bundle.
 */
String link() default "";
}
package aQute.bnd.annotation.licenses;

import aQute.bnd.annotation.headers.*;

/**
 * An annotation to indicate that the type depends on the Common Development and
 * Distribution license. Applying this annotation will add a Bundle-License
 * clause.
 */

@BundleLicense(name = "http://opensource.org/licenses/CDDL-1.0", link =
Development and Distribution License 1.0")
public @interface CDDL_1_0 {}

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JUnit

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</OL>

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

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<OL TYPE="a">

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<LI>Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
</OL>

<P>The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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<pre>
<VAR>one line to give the program's name and an idea of what it does.</VAR>
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</pre>

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

<P>If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

<pre>
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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.
</pre>

<P>The hypothetical commands <SAMP>`show w'</SAMP> and <SAMP>`show c'</SAMP> should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than <SAMP>`show w'</SAMP> and <SAMP>`show c'</SAMP>; they could even be mouse-clicks or menu items--whatever
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<P>
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<P><VAR>signature of Ty Coon</VAR>, 1 April 1989
Ty Coon, President of Vice
</P>

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<P>Version 2, June 1991

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</H2>

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

<ol>
  <li>(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.)</li>
</ol>

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OL TYPE="a"

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<pre>
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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.

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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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1.43 cpp 4.8.5-39.el7atomix1

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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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1.53 mongodb-driver 3.6.3

1.54 mesa 18.3.4-6.el7_7
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   SOFTWARE.
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's 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

1.55 netty 4.1.30.Final

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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    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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@end enumerate

@end example

@end section

@end section

@end section

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@smallexample
@var{one line to give the program's name and a brief idea of what it does.}

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@end example

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Written by: Philip Hazel
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<td>None</td>
<td>Public Domain</td>
</tr>
<tr>
<td>mfbt/lz4.c</td>
<td>Yann Collet</td>
<td>BSD-2-Clause</td>
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<tr>
<td>mfbt/lz4.h</td>
<td></td>
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</tbody>
</table>

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1.79 spring-websocket 5.0.5

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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 3a0982da308228d796df35f98d787c5caff2bb5b6.

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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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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* /opt/ws_local/PERMITS_SQL/1071969976_1594967712.32/0/plexus-classworlds-2-6-0-sources-1-jar/org/codehaus/plexus/classworlds/strategy/SelfFirstStrategy.java
* /opt/ws_local/PERMITS_SQL/1071969976_1594967712.32/0/plexus-classworlds-2-6-0-sources-1-jar/org/codehaus/plexus/classworlds/strategy/ParentFirstStrategy.java

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*/opt/ws_local/PERMITS_SQL/1071969976_159467712.32/0/plexus-classworlds-2-6-0-sources-1-
jar/org/codehaus/plexus/classworlds/launcher/ConfigurationHandler.java
*/opt/ws_local/PERMITS_SQL/1071969976_159467712.32/0/plexus-classworlds-2-6-0-sources-1-
jar/org/codehaus/plexus/classworlds/ClassWorldListener.java
*/opt/ws_local/PERMITS_SQL/1071969976_159467712.32/0/plexus-classworlds-2-6-0-sources-1-
jar/org/codehaus/plexus/classworlds/launcher/ConfigurationParser.java
*/opt/ws_local/PERMITS_SQL/1071969976_159467712.32/0/plexus-classworlds-2-6-0-sources-1-
jar/org/codehaus/plexus/classworlds/strategy/AbstractStrategy.java
*/opt/ws_local/PERMITS_SQL/1071969976_159467712.32/0/plexus-classworlds-2-6-0-sources-1-
jar/org/codehaus/plexus/classworlds/launcher/Configurator.java
*/opt/ws_local/PERMITS_SQL/1071969976_159467712.32/0/plexus-classworlds-2-6-0-sources-1-
jar/org/codehaus/plexus/classworlds/strategy/Strategy.java
*/opt/ws_local/PERMITS_SQL/1071969976_159467712.32/0/plexus-classworlds-2-6-0-sources-1-
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*/opt/ws_local/PERMITS_SQL/1071969976_159467712.32/0/plexus-classworlds-2-6-0-sources-1-
jar/org/codehaus/plexus/classworlds/realm/DuplicateRealmException.java
*/opt/ws_local/PERMITS_SQL/1071969976_159467712.32/0/plexus-classworlds-2-6-0-sources-1-
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*/opt/ws_local/PERMITS_SQL/1071969976_159467712.32/0/plexus-classworlds-2-6-0-sources-1-
jar/org/codehaus/plexus/classworlds/launcher/ConfigurationException.java
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1.110 json-java 20131018

1.111 javaip 0.17

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1.112 jaxen 1.1.2

1.113 jackson-dataformat-yaml 2.8.11

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27287880
27287883

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1.118 jcl-over-slf4j 1.7.25

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1.119 jersey-media-jaxb 2.25.1

1.120 x-text 0.3.0

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1.121 javaewah 1.1.6

1.122 perl-socket 2.010-4.el7

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>>> freebsd-base64-4.8
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>>>> unicode-5.0

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1.129 thrift 0.13.0

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1.131 swagger-annotations 1.5.20

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```

class io.swagger.annotations;
import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;

/**
 * License metadata available within the info section of a Swagger definition, see
 * https://github.com/OAI/OpenAPI-Specification/blob/master/versions/2.0.md#licenseObject
 * @since 1.5.0
 */

@Target(ElementType.ANNOTATION_TYPE)
@Retention(RetentionPolicy.RUNTIME)
public @interface License {

/**
 * The name of the license.
 *
 * @return the name of the license
 */
String name();

/**
 * An optional URL for the license.
 *
 * @return an optional URL for the license.
 */
String url() default "";
}

1.132 chkconfig 1.7.4-1.el7
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1.135 tcp-dump 4.9.2-4.el7.1.0atomix1

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
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Benali, Elias
Beverly, Jamie
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Bowes, Keith
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Tucker, Darren
Uhl, Robert
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Van Dinter, Theo
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
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Buo-ren, Lin
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Margeviius, Algimantas
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The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
Sandwich logo: Stillman, Mark

1.137 icu 50.2 4.el7_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,-Bsymbalic

## 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/\([^0-9])\.[^/]*/\1.o $@ : /g'\\n| -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \\
| sed 's/\([^0-9])\.[^/]*/\1.o $@ : /g'\\n| -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

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That's all there is to it!

1.142 diffutils 3.3 5.el7

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From RPM File Metadata:GPLv3+
/* diff - compare files line by line

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#define GDIFF_MAIN
#define "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"), \nproper_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[] =
"0123456789abC:dE:f:H:i:l:nnpqsst:uw: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,
  TABSIZE_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},
    {"ifndef", 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_COLUMNOPTION],
    {"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, 'l'},
    {"rcs", 0, 0, 'r'},
/* 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++ = ' ';
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;
    int ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
    char *from_file = NULL;
    char *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[] =
            "%%=%c ifndef %s \n %%%<#endif /* ! %s */ %s */ifndef %s */ifndef %s \n %%%<#else /* %s */#endif /* %s */
%c#ifdef %s
%%>#endif /* %s */
%cifndef %s
%%<#endif /* %s */
%cifdef %s
%%>#endif /* %s */
%cifndef %s
%%<#endif /* %s */
%cifdef %s
%%>#endif /* %s */
    char *b = xmalloc (sizeof C_ifdef_group_formats
        + 7 * strlen (optarg) - 14 /* 7*"%s" */
        - 8 /* 5*"%c" + 3*"%c" */);
    sprintf (b, C_ifdef_group_formats,
        optarg, optarg, 0,
        optarg, optarg, optarg,
        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 'T':
    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 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
    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)
            fatal ("conflicting width options");
            width = numval;
        break;

    case BINARY_OPTION:
        #if O_BINARY
        binary = true;
        if (! isatty (STDOUT_FILENO))
            set_binary_mode (STDOUT_FILENO, O_BINARY);
        #endif
        break;

    default:
        fatal ("unknown option '%s'", optarg);
        break;

    return EXIT_SUCCESS;
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 = strtoimax (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:
    break;
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 "char", 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 (OUTPUTIFDEF);
        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 (OUTPUTIFDEF);
        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_SPARSE1)
        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
";
    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.regexps || 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)
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_("--left-column                output only the left column of common lines"),
    N_("--show-c-function            show which C function each change is in"),
    N_("    --left-column             output only the left column of common lines"),
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_("-I, --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 don't 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_("    --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
\%
[-][WIDTH][][PREC][][doxX]LETTER printf-style spec for LETTER

LETTERS are as follows for new group, lower case for old group:
F first line number
L last line number
N number of lines = L-F+1
E F-1
M L+1

%(A=B?T:E) if A equals B then T else E

LFMT (only) may contain:
%L contents of line
%i contents of line, excluding any trailing newline

%c'C' the single character C
%c'\OOO' the character with octal code OOO

Both GFMT and LFMT may contain:
%% %
%c'C' the single character C
%c'\OOO' the character with octal code OOO

Mandatory arguments to long options are mandatory for short options too.

FILES are 'FILE1 FILE2' or 'DIR1 DIR2' or 'DIR FILE...' or 'FILE... DIR'.
If --from-file or --to-file is given, there are no restrictions on FILE(s).
If a FILE is '-', read standard input.
Exit status is 0 if inputs are the same, 1 if different, 2 if trouble.

static void
usage (void)
{
    char const * const *p;

    printf (_("Usage: %s [OPTION]... FILES\n"), program_name);
    printf (_("Compare FILES line by line.
"), 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;
#endif
# if defined STAT_TIMESPEC_NS
STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
#else defined HAVE_STRUCT_STAT_ST_SPARE1
st->st_spare1 = t.tv_nsec / 1000;
#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
", dir, name);
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)

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
", 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
", file_label[0] ? file_label[0] : cmp.file[0].name, file_type (&cmp.file[0].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_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, 
        status = EXIT_FAILURE;
/* 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, 
}
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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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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(This file is under construction.)

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-compile 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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1.147 lang-expression 6.5.4

1.148 geo-ip 1.5.0 14.el7
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- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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*/

package javax.mail;

public class Authenticator {
  protected PasswordAuthentication getPasswordAuthentication() {
    return null;
  }
}

1.152 spring-ldap 2.3.2
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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
 kprop/kpropd_rpc.c
 kprop/kproplog.c
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1.161 libpciaccess 0.14 1.el7

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1.174 spectator-api 0.88.0

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1.177 maven-compat 3.5.0

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.

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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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For details about the Python License, please see doc/Python-License.txt.

History
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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

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A. HISTORY OF THE SOFTWARE
================----------

contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

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 that included the contextlib module.

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That's all there is to it!

A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.
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1.183 xorg-x11-font-utils 7.5 21.el7

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1.184 bcpkix-fips 1.0.3
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# libxcomposite 0.4.4 4.1.el7

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1.187 swagger-core 1.6.0

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1.188 afero 1.2.1

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

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1.195 jackson 1.9.13

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.196 bigtop-utils 1.2.1-1.el7.centos

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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/TerminalNode.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/NoViableAltException.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/tree/ConsoleErrorListener.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/ParseTreeListener.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/tree/ParseTreeMismatchException.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/tree/ParseTreeRecognitionException.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/tree/ParseTreeRecognitionException.java
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* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/antlr/v4/runtime/dfa/LexerDFASerializer.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/antlr/v4/runtime/ANTLRErrorListener.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/antlr/v4/runtime/BaseErrorListener.java
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* /opt/ws_local/PERMITS_SQL/1013874099_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/antlr/v4/runtime/parseTree/ProbingATNSimulator.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atan/ATNDeserializer.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atan/LexerPushModeAction.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/atan/LexerModeAction.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/atan/LexerIndexedCustomAction.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/atan/ContextSensitivityInfo.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atan/ParseInfo.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atan/AmbiguityInfo.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/atan/LookaheadEventInfo.java
* /opt/ws_local/PERMITS_SQL/1013874009_1591325437.54/0/antlr4-runtime-4-5-1-sources-jar/org/antlr/v4/runtime/atan/PredicateEvalInfo.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/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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1.201 guava 19.0

1.202 kafka 1.0.1 2
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.siloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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INFO_LDAPMODIFY_ARG_DESCRIPTION_ASSURED_REPLICATION("Indicates that all operation requests should include the UnboundID-proprietary 'assured replication' request control to indicate that the server should delay returning a response to the client until a minimum amount of replication processing has been performed for the operation. The "--{0}", "--{1}", and "--{2}" arguments may be used to configure the settings to use for the assured replication control, but the server will automatically determine an appropriate value for any argument that is not provided.").
Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request.
INFO_LDAPMODIFY_ARG_DESCRIPTION_GET_AUTHZ_ENTRY_ATTR("Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request.").
Indicates that all delete requests should include the UnboundID-proprietary 'hard delete' request control, which will permanently delete the target entry even if the server would have otherwise performed a soft delete operation to hide the entry for a period of time before deleting it.
INFO_LDAPMODIFY_ARG_DESCRIPTION_HARD_DELETE("Indicates that all delete requests should include the UnboundID-proprietary 'hard delete' request control, which will permanently delete the target entry even if the server would have otherwise performed a soft delete operation to hide the entry for a period of time before deleting it.").
Indicates that all add requests should include the UnboundID-proprietary 'ignore NO-USER-MODIFICATION'
request control to permit setting values for certain operational attributes not normally permitted to be provided by external clients. 

INFO_LDAPMODIFY_ARG_DESCRIPTION_IGNORE_NO_USER_MOD("Indicates that all add requests should include the UnboundID-proprietary 'ignore NO-USER-MODIFICATION' request control to permit setting values for certain operational attributes not normally permitted to be provided by external clients."). Include the UnboundID-proprietary 'name with entryUUID' request control in all add requests sent to the server to indicate that the server should use the entryUUID operational attribute as the naming attribute for the resulting entry instead of the provided RDN. 

INFO_LDAPMODIFY_ARG_DESCRIPTION_NAME_WITH_ENTRY_UUID("Include the UnboundID-proprietary 'name with entryUUID' request control in all add requests sent to the server to indicate that the server should use the entryUUID operational attribute as the naming attribute for the resulting entry instead of the provided RDN."). Indicates that all operations should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation.

INFO_LDAPMODIFY_ARG_DESCRIPTION_OPERATION_PURPOSE("Indicates that all operations should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation."). Indicates that all add and modify requests that target either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'password validation details' request control to indicate that the response should include information about the password quality requirements that the server will impose for the target user's password and whether the provided password satisfies each of those constraints.

INFO_LDAPMODIFY_ARG_DESCRIPTION_PASSWORD_VALIDATION_DETAILS("Indicates that all add and modify requests that target either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'password validation details' request control to indicate that the response should include information about the password quality requirements that the server will impose for the target user's password and whether the provided password satisfies each of those constraints."). Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'purge current password' request control. This will indicate that the server should purge the current password from the entry (even if it would have otherwise been retired for a brief period of time).

INFO_LDAPMODIFY_ARG_DESCRIPTION_PURGE_CURRENT_PASSWORD("Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'purge current password' request control. This will indicate that the server should purge the current password from the entry (even if it would have otherwise been retired for a brief period of time)."). Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'retire current password' request control. This will indicate that the server should continue to allow the user to authenticate with their current password (in addition to the new password) for a brief period of time.

INFO_LDAPMODIFY_ARG_DESCRIPTION_REPLICATION_REPAIR("Indicates that all operation requests should include the UnboundID-proprietary 'replication repair' request control. This will cause the change to be applied only to the target directory server instance but not to any other server in the replication topology.

INFO_LDAPMODIFY_ARG_DESCRIPTION_REPLICATION_REPAIR("Indicates that all operation requests should include the UnboundID-proprietary 'replication repair' request control. This will cause the change to be applied only to the target directory server instance but not to any other server in the replication topology."). Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'retire current password' request control. This will indicate that the server should continue to allow the user to authenticate with their current password (in addition to the new password) for a brief period of time.

INFO_LDAPMODIFY_ARG_DESCRIPTION_RETIRE_CURRENT_PASSWORD("Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-proprietary 'retire current password' request control. This will indicate that the server should continue to allow the user to authenticate with their current password (in addition to the new password) for a brief period of time."). Indicates that all delete requests should include the UnboundID-proprietary 'soft delete' request control, which indicates that the server should hide the entry for a period of time before deleting it so that it may be restored with an undelete operation if the delete should be reverted. 

INFO_LDAPMODIFY_ARG_DESCRIPTION_SOFT_DELETE("Indicates that all delete requests should include the UnboundID-proprietary 'soft delete' request control, which indicates that the server should hide the entry for a period of time before deleting it so that it may be restored with an undelete operation if the delete should be reverted."). Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the
specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'. INFO_LDAPMODIFY_ARG_DESCRIPTION_SUPPRESS_OP_ATTR_UPDATES("Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'."), Indicates that the tool should include the UnboundID-proprietary 'suppress referential integrity updates' request control in all delete and modify DN operations to indicate that the server should not perform any referential integrity processing for those operations. INFO_LDAPMODIFY_ARG_DESCRIPTION_SUPPRESS_REFERINT_UPDATES("Indicates that the tool should include the UnboundID-proprietary 'suppress referential integrity updates' request control in all delete and modify DN operations to indicate that the server should not perform any referential integrity processing for those operations."). Indicates that all search requests should include the UnboundID-proprietary account usable request control to request that each search result entry returned include a response control with information about the password policy usability state for the entry. INFO_LDAPSEARCH_ARG_DESCRIPTION_ACCOUNT_USABLE("Indicates that all search requests should include the UnboundID-proprietary account usable request control to request that each search result entry returned include a response control with information about the password policy usability state for the entry."), Indicates that all search requests should include the UnboundID-proprietary 'exclude branch' request control to indicate that matching entries below the specified base DN should be excluded from search results. This argument may be provided multiple times if multiple branches should be excluded. INFO_LDAPSEARCH_ARG_DESCRIPTION_EXCLUDE_BRANCH("Indicates that all search requests should include the UnboundID-proprietary 'exclude branch' request control to indicate that matching entries below the specified base DN should be excluded from search results. This argument may be provided multiple times if multiple branches should be excluded."). Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request. INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_AUTHZ_ENTRY_ATTR("Indicates that all bind requests should include the UnboundID-proprietary 'get authorization entry' request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like '*' to indicate all user attributes or '+' to indicate all operational attributes) from the authenticated user's entry. This argument may be provided multiple times to specify multiple attributes to request."). Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights that a user has when interacting with each matching entry. This argument may be provided multiple times to specify multiple attributes. INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_EFFECTIVE_RIGHTS_ATTR("Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights that a user has when interacting with each matching entry. This argument may be provided multiple times to specify multiple attributes."). Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights the specified user has when interacting with each matching entry. INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_EFFECTIVE_RIGHTS_AUTHZID("Indicates that all search requests should include the UnboundID-proprietary 'get effective rights' request control to return information about the access control rights the specified user has when interacting with each matching entry. "). Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user. INFO_LDAPSEARCH_ARG_DESCRIPTION_GET_USER_RESOURCE_LIMITS("Indicates that all bind requests should include the UnboundID-proprietary 'get user resource limits' request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the
Indicates that all search requests should include the UnboundID-proprietary 'return conflict entries request control' to indicate that the server may return any replication conflict entries that match the search criteria. Replication conflict entries are normally excluded from search results.

INFO_LDAPSEARCH_ARG_DESCRIPTION_INCLUDE_REPL_CONFLICTS("Indicates that all search requests should include the UnboundID-proprietary 'return conflict entries request control' to indicate that the server may return any replication conflict entries that match the search criteria. Replication conflict entries are normally excluded from search results.")

Indicates that all search requests should include the UnboundID-proprietary 'soft-deleted entry access' request control to indicate that the server may return any soft-deleted entries that match the search criteria. Soft-deleted entries are normally excluded from search results. The value for this argument must be one of: 'with-non-deleted-entries' (indicates that both regular and soft-deleted entries should be returned), 'without-non-deleted-entries' (indicates that only soft-deleted entries should be returned), or 'deleted-entries-in-undeleted-form' (returns only soft-deleted entries in the form in which the entry had before it was deleted).

INFO_LDAPSEARCH_ARG_DESCRIPTION_INCLUDE_SOFT_DELETED("Indicates that all search requests should include the UnboundID-proprietary 'soft-deleted entry access' request control to indicate that the server may return any soft-deleted entries that match the search criteria. Soft-deleted entries are normally excluded from search results. The value for this argument must be one of: 'with-non-deleted-entries' (indicates that both regular and soft-deleted entries should be returned), 'without-non-deleted-entries' (indicates that only soft-deleted entries should be returned), or 'deleted-entries-in-undeleted-form' (returns only soft-deleted entries in the form in which the entry had before it was deleted.")

Indicates that all search requests should include the UnboundID-proprietary 'matching entry count' request control, which indicates that the server should return information about the number of entries that match the search criteria. The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an estimate will be returned. If alwaysExamine is specified and the number of candidates is less than the examine count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to the client in a search. If allowUnindexed is specified, then the count will be allowed to be processed even if the search is unindexed (and may take a very long time to complete). If debug is specified, then additional debug information may be included in the output.

INFO_LDAPSEARCH_ARG_DESCRIPTION_MATCHING_ENTRY_COUNT_CONTROL("Indicates that all search requests should include the UnboundID-proprietary 'matching entry count' request control, which indicates that the server should return information about the number of entries that match the search criteria. The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an estimate will be returned. If alwaysExamine is specified and the number of candidates is less than the examine count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to the client in a search. If allowUnindexed is specified, then the count will be allowed to be processed even if the search is unindexed (and may take a very long time to complete). If debug is specified, then additional debug information may be included in the output.")

Indicates that all search requests should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation.

INFO_LDAPSEARCH_ARG_DESCRIPTION_OPERATION_PURPOSE("Indicates that all search requests should include the UnboundID-proprietary 'operation purpose' request control to provide the specified reason for the operation.")

Indicates that all search requests should include the UnboundID-proprietary permit unindexed search request control to indicate that the server should process the search operation even if it cannot do so efficiently using server indexes. The requester must have either the unindexed-search or unindexed-search-with-control privilege.

INFO_LDAPSEARCH_ARG_DESCRIPTION_PERMIT_UNINDEXED_SEARCH("Indicates that all search requests should include the UnboundID-proprietary permit unindexed search request control to indicate that the server should process the search operation even if it cannot do so efficiently using server indexes. The requester must have either the unindexed-search or unindexed-search-with-control privilege.")

Indicates that all search requests should include the UnboundID-proprietary 'real attributes only' request control to indicate that the server should not include any virtual attributes in entries that are returned.

INFO_LDAPSEARCH_ARG_DESCRIPTION_REAL_ATTRS_ONLY("Indicates that all search requests should
include the UnboundID-proprietary 'real attributes only' request control to indicate that the server should not include any virtual attributes in entries that are returned.

Indicates that all search requests should include the UnboundID-proprietary reject unindexed search request control to indicate that the server should not process the search operation if it cannot do so efficiently using server indexes, even if the requester has the unindexed-search privilege.

INFO_LDAPSEARCH_ARG_DESCRIPTION_REJECT_UNINDEXED_SEARCH("Indicates that all search requests should include the UnboundID-proprietary reject unindexed search request control to indicate that the server should not process the search operation if it cannot do so efficiently using server indexes, even if the requester has the unindexed-search privilege.

Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'.

INFO_LDAPSEARCH_ARG_DESCRIPTION_SUPPRESS_OP_ATTR_UPDATES("Indicates that all operations should include the UnboundID-proprietary 'suppress operational attribute updates' request control to indicate that the server should not apply any updates to the specified operational attributes. The value may be one of 'last-access-time', 'last-login-time', 'last-login-ip', or 'lastmod'.

Indicates that all search requests should include the UnboundID-proprietary 'virtual attributes only' request control to indicate that the server should only include virtual attributes in entries that are returned.

INFO_LDAPSEARCH_ARG_DESCRIPTION_VIRTUAL_ATTRS_ONLY("Indicates that all search requests should include the UnboundID-proprietary 'virtual attributes only' request control to indicate that the server should only include virtual attributes in entries that are returned.

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The int value for the CONFIDENTIALITY_REQUIRED result code.

public static final int CONFIDENTIALITY_REQUIRED = ResultCode.CONFIDENTIALITY_REQUIRED_INT_VALUE;

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return CONFIDENTIALITY_REQUIRED; CONFIDENTIALITY_REQUIRED,'
quality of protection that should be used for any communication that occurs after the authentication has completed. Allowed values are 'auth' (for just authentication with no communication protection), 'auth-int' (for integrity protection for communication, which does not encrypt but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf' (for confidentiality protection for communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least desirable.

The quality of protection that should be used for any communication that occurs after the authentication has completed. Allowed values are 'auth' (for just authentication with no communication protection), 'auth-int' (for integrity protection for communication, which does not encrypt but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf' (for confidentiality protection for communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least desirable.

INFO_SASL_GSSAPI_OPTION_QOP("The quality of protection that should be used for any communication that occurs after the authentication has completed. Allowed values are 'auth' (for just authentication with no communication protection), 'auth-int' (for integrity protection for communication, which does not encrypt but ensures that the communication cannot be imperceptibly altered by a man in the middle attack), and 'auth-conf' (for confidentiality protection for communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no value is specified, then a default of 'auth' will be assumed. If any of multiple qualities of protection will be considered acceptable then the permissible QoP values may be separated by commas and listed in order from most desirable to least desirable.").

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## Special Recognition ##
One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire build system we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks: but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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1.218 go-msgpack 1.13.1-103.git7f2769b.el7.centos

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Protocol Buffers for Go with Gadgets

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2000-05-05

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Initialize empty image
f1c9645d8c14efde7d8a322685f26eb bsd.img
Create new DOS partition table
57e7221e38d1266c2df055067c18f2cf9 bsd.img

---layout--------
__ts_dev__ : 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End   Blocks Id  System
---------- ------- ------ -------- ----- ------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End   Blocks Id  System
__ts_dev__1    2048  4095  1024   83  Linux
---------- ------- ------ -------- ----- ------------

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End   Blocks Id  System
__ts_dev__1    2048  4095  1024   83  Linux
__ts_dev__2    4096 20479 8192   a5  FreeBSD
---------- ------- ------ -------- ----- ------------

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
Command (m for help):

BSD disklabel command (m for help):
4 partitions:
  #  start   end    size   fstype  [fsize bsize  cpg]
c:  4096  20479  16384 unused  0   0   0
d:   0   16064  16065 unused  0   0   0

BSD disklabel command (m for help):
Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout---------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
  #   start   end    size   fstype  [fsize bsize  cpg]
a:  4096   6144   2049   4.2BSD   0   0   0
c:  4096  20479  16384 unused   0   0
  d:   0   16064  16065 unused   0   0

BSD disklabel command (m for help):
Command (m for help):
-------------------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition   a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660         10  AdvFS
4  System V

Open Source Used In NAE (5.0) Florence Peak (version 5.0) 5.0.1.2 2396
BSD disklabel command (m for help):
/
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*/

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1:       32       7648  0x83
#2:      7680       8704  0xa5
#5:      7936       4864  0x7 (freebsd)
#6:     12544       3584  0x7 (freebsd)

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2.0.1

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1.260 go-radix 1.13.1-94.gitb2f74b2.el7.centos

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1.261 libmspack 0.5 0.7.alpha.el7

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* A rewrite of the original Debian's start-stop-daemon Perl script
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*
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1.266 bind 9.11.4 9.P2.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
  3a0982da308228d796df35f98d787c5cfe2bb5b6.

  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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1.267 compiler 0.9.3

1.268 procps 3.3.10

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On Mon Nov 18 10:37:28 2013, mmaslano@redhat.com wrote:
> It would be a big help if you have better defined license. License
> text in .pm file would be enough.

Will do in next version.

> I found Perl license in Makefile.PL,
> so we assumed it's Perl (GPL+ or Artistic). Is it correct?

yes

--
Alexandr Ciornii, http://chorny.net

1.299 go-codec 1.5.2 0.7.git269f928.el7

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1.304 golang-protobuf-extensions 1.5.2
0.7.git269f928.el7

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*/
/**
* A {@link WebApplicationContext} that can be used to bootstrap itself from a contained
* {@link ServletWebServerFactory} bean.
* 
* This context will create, initialize and run an {@link WebServer} by searching for a
* single {@link ServletWebServerFactory} bean within the {@link ApplicationContext}
* itself. The {@link ServletWebServerFactory} is free to use standard Spring concepts
* (such as dependency injection, lifecycle callbacks and property placeholder variables).
* 
* In addition, any {@link Servlet} or {@link Filter} beans defined in the context will be
* automatically registered with the web server. In the case of a single Servlet bean, the
* '/' mapping will be used. If multiple Servlet beans are found then the lowercase bean
* name will be used as a mapping prefix. Any Servlet named 'dispatcherServlet' will
* always be mapped to '/'. Filter beans will be mapped to all URLs ('/*').
* 
* For more advanced configuration, the context can instead define beans that implement
* the {@link ServletContextInitializer} interface (most often
* {@link ServletRegistrationBean}s and/or {@link FilterRegistrationBean}s). To prevent
* double registration, the use of {@link ServletContextInitializer} beans will disable
* automatic Servlet and Filter bean registration.
* 
* Although this context can be used directly, most developers should consider using the
* {@link AnnotationConfigServletWebServerApplicationContext} or
* {@link XmlServletWebServerApplicationContext} variants.
* 
* @author Phillip Webb
* @author Dave Syer
* @see AnnotationConfigServletWebServerApplicationContext
* @see XmlServletWebServerApplicationContext
*/

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* /opt/ws_local/PERMITS_SQL/1031203703_1594250631.64/0/spring-boot-2.0.2-release-sources-1-
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* /opt/ws_local/PERMITS_SQL/1031203703_1594250631.64/0/spring-boot-2-0-2-release-sources-1-
  jar/org/springframework/boot/web/embedded/jetty/JettyReactiveWebServerFactory.java
* /opt/ws_local/PERMITS_SQL/1031203703_1594250631.64/0/spring-boot-2-0-2-release-sources-1-
  jar/org/springframework/boot/context/properties/bind/BindConverter.java
* /opt/ws_local/PERMITS_SQL/1031203703_1594250631.64/0/spring-boot-2-0-2-release-sources-1-
  jar/org/springframework/boot/web/servlet/support/package-info.java
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  jar/org/springframework/boot/json/JsonParser.java
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  jar/org/springframework/boot/web/server/MimeMappings.java
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  jar/org/springframework/boot/context/properties/bind/BindException.java
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  jar/org/springframework/boot/context/properties/PropertySourcesDeducer.java
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* /opt/ws_local/PERMITS_SQL/1031203703_1594250631.64/0/spring-boot-2-0-2-release-sources-1-
  jar/org/springframework/boot/web/server/WebServerFactoryCustomizerBeanPostProcessor.java
* /opt/ws_local/PERMITS_SQL/1031203703_1594250631.64/0/spring-boot-2-0-2-release-sources-1-
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1.307 spring-boot 2.0.1.RELEASE

1.308 netty-resolver 4.1.23

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* Annotations to easily expose metrics from a class.
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  jar/com/netflix/servo/monitor/AbstractMonitor.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/publish/PrefixMetricFilter.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/publish/NormalizationTransform.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/monitor/BucketConfig.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/monitor/StatsMonitor.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/publish/BaseMetricObserver.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/monitor/MonitoredCache.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-
  jar/com/netflix/servo/monitor/MonitorConfig.java
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  jar/com/netflix/servo/monitor/TimedStopwatch.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/stats/StatsBuffer.java
* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/DynamicTimer.java
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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/monitor/BucketTimer.java
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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/jmx/package-info.java

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*  
* Code related to Tagging objects with metadata.  
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* Code related to Tagging objects with metadata.  
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* Code related to Tagging objects with metadata.  
*/

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* /opt/ws_local/PERMITS_SQL/1018334783_1594188426.05/0/servo-core-0-12-21-sources-jar/com/netflix/servo/tag/package-info.java

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A light-weight compression algorithm. It is designed for speed of compression and decompression, rather than for the utmost in space savings.

For getting better compression ratios when you are compressing data with long repeated sequences or compressing data that is similar to other data, while still compressing fast, you might look at first
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zlib.h -- interface of the 'zlib' general purpose compression library
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Version 2, December 2004
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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:

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* cvt - IEEE floating point formatting routines.
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1.331 device-mapper-multipath 0.4.9-127.el7

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1.332 json-schema-validator 2.2.8

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1.336 atk 2.28.1 1.el7

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Version 2, June 1991

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1.341 vaughan0-go-ini 1.25.4
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1.342 mailcap 2.1.41 2.el7

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1.351 lucene 7.5.0
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NekoHTML is a simple HTML scanner and tag balancer that enables application programmers to parse HTML documents and access the information using standard XML interfaces. The parser can scan HTML files and "fix up" many common mistakes that human (and computer) authors make in writing HTML documents. NekoHTML adds missing parent elements; automatically closes elements with optional end tags; and can handle mismatched inline element tags.

NekoHTML is written using the Xerces Native Interface (XNI) that is the foundation of the Xerces2 implementation. This enables you to use the NekoHTML parser with existing XNI tools without modification or rewriting code.
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`analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt`,
`analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt`,
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(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/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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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
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mecab-ko-dic-2.0.3-20170922

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 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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*/
* The apr_md5_encode() routine uses much code obtained from the FreeBSD 3.0
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#
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For the test\zb.c component:

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 ================

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

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<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>!--
This file is generated from xml source: DO NOT EDIT
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet"/>
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size"/>
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css"/>
<link rel="stylesheet" type="text/css" href="./style/css/prettify.css"/>
<script src="./style/scripts/prettify.js" type="text/javascript"></script>
<link href="./images/favicon.ico" rel="shortcut icon" />
<body id="manual-page" class="no-sidebar">
<div id="page-header">
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="./"><img title="<" alt="<" src="./images/left.gif" /></a></div>
<p>&lt;xopen Source Used In NAE (5.0) Florence Peak (version 5.0) 5.0.1.2 3197</p>
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1.361 mergo 1.13.1-94.gitb2f74b2.el7.centos
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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

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1.363 slf4j 1.7.25
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"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=iso-8859-1" />
    </head>
```
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1.372 rx-netty-servo 0.4.9

1.373 javax-annotation-api 1.3.2

1.374 xpp3-min 1.1.4c

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It is a minimalist API: very easy to implement standalone or on top of existing parser. The API allows both fast high
level iteration (using next() method) and low level tokenizing (using nextToken() token) and is designed for easy
building on top of it SAX, XML pull parsers that uses iterators with event objects, or even DOM implementations.
To to support J2ME and real small implementation parsing of DOCDECL is optional (but DOCDECL can be
reported if requested).

The aim is to provide a similar but orthogonal pull parsing basis to widely successful push parsing SAX API. The
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1.375 nio-multipart-parser 1.1.0

1.376 netty-codec-http 4.1.23

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1.377 httpclient 4.5.5

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1.378 regexp 2.7.2

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1.380 expat 1.95.7

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1.381 elfutils 0.176 2.el7

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Gocheck - A rich testing framework for Go

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analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,  
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- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`
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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`
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1.392 jackson-datatype-guava 2.9.3

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Version 2.1, February 1999

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1.403 metrics 2.2.0
1.403.1 Available under license :

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**1.404 cracklib 2.9.0-11.el7**

**1.404.1 Available under license:**

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

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

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

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

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
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
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir
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
-----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

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
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GPL-2 ... it was a modified artistic license ... i didnt notice the
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change until it was mentioned in the latest notes.

> 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 SMPTPSVC(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 SMPTPSVC(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-ipv6.ccm.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] (hel0=[192.168.1.3])
  by rutherford.zen.co.uk with esmtp (Exim 4.50)
Id 1IeOxC-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: <1b1b3fd80710010908k11dac0afpflf2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
  <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
  <1b1b3fd80710010908k11dac0afpflf2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFE6E9F@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
This package was debianized by Jean Pierre LeJacq
<jpjlejacq@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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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.

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

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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
> 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 didn't 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 their applications are also GPL-2 which imo is just wrong. it isn't 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
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 GPL-2 ... it was a modified artistic license ... i didnt notice the license change until it was mentioned in the latest notes.

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thus LGPL-2.1 enters to fill this void.

Mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...>
> 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
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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as the successor of the GNU Library Public License, version 2, hence
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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.

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For example, on rare occasions, there may be a special need to
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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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(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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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
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In addition, mere aggregation of another work not 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.

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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
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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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   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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1.410 eureka-client 1.9.0

1.411 pflag 1.13.1-53.git774336d.el7.centos

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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.

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

Activities other than copying, distribution and modification are not
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running a program using the Library is not restricted, and output from
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on the Library (independent of the use of the Library in a tool for
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of it, thus forming a work based on the Library, and copy and
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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
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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.

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 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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copyright notice for the Library among them, as well as a reference
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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
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It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
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7. You may place library facilities that are a work based on the
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
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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.>
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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!
/* 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_PHYSIE)
 * 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_nicstart() 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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QLogic Linux Networking HBA Driver

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Linus Torvalds

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Version 2, June 1991

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

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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(If you think you should be in this list, but you are not, drop a
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1.428 go-multierror 1.13.1-94.gitb2f74b2.el7.centos

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1.429 aether-transport-http 1.0.2.v20150114

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1.430 bsd-mailx 12.5-5

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Source: bsd-mailx
Section: mail
Priority: standard
Maintainer: Ubuntu Developers <ubuntu-devel-discuss@lists.ubuntu.com>
XSBC-Original-Maintainer: Robert Luberda <robert@debian.org>
Standards-Version: 3.9.4
Build-Depends: debhelper (>= 9),
groff,
libbsd-dev (>= 0.3),
libblockfile-dev (>= 1.05)
Vcs-Git: git://anonscm.debian.org/users/robert/bsd-mailx.git
Vcs-Browser: http://anonscm.debian.org/gitweb/?p=users/robert/bsd-mailx.git

Package: bsd-mailx
Architecture: any
Depends: base-files (>= 2.2.0),
    default-mta | mail-transport-agent,
    ${misc:Depends},
    ${shlibs:Depends}
Provides: mail-reader, mailx
Breaks: mailutils (<< 1:1.1+dfsg1-4), mailx (<< 1:20071201)
Replaces: mailx (<< 1:20071201)
Description: simple mail user agent
bsd-mailx is the traditional simple command-line-mode mail user agent.
Even if you don't use it, it may be required by other programs.

The /usr/bin/mail command provided by this package is a very simple one,
and does not include many features that can be found in more advanced
mail user agents.

For example bsd-mailx DOES NOT support:
- MIME (i.e. no attachments, no UTF-8 or other charsets support);
- SMTP protocol (/usr/sbin/sendmail interface only is used);
- POP3/IMAP (bsd-mailx reads local mailboxes only);
- maildir format (traditional mbox only format is supported).

If the above features are needed, please consider installing another package
providing similar /usr/bin/mail interface:
- heirloom-mailx package,
- or mailutils package.
bsd-mailx (8.1.2-0.20131005cvs-1ubuntu0.14.04.1) trusty-security; urgency=medium

* SECURITY UPDATE: shell command injection
- Apply OpenBSD patches from Todd Miller (taken from Debian update):
bsd-mailx (8.1.2-0.20131005cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* Remove 23-Treat-new-line-only-messages-as-empty-ones.patch, introduced in 1:8.1.2-0.20071017cvs-1 so that bsd-mailx will behave like other mailx implementations and will not treat messages containing a single new line only as an empty ones (LP: #607099, reopens #355545).
* Extend description of this package to mention the fact that bsd-mailx lacks many features that may be found in other packages like heirloom-mailx or mailutils (closes: #508303).
* Add 26-Fix-confusing-error.patch to make a message given when -b is used without -t less confusing (closes: #327809).
* Fix 00-Makefile.patch not to override CC and pass CPPFLAGS while compiling.
* debian/rules:
  + apply patch from Ubuntu to respect DEB_HOST_GNU_TYPE when selecting CC for cross-compiling;
  + do not try to run make clean on unpatched Makefile.
* Bump Standards-Version to 3.9.4 (no changes).

-- Robert Luberda <robert@debian.org>  Sun, 06 Oct 2013 11:58:42 +0200

bsd-mailx (8.1.2-0.20111106cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* Drop the additional source files from EXT directory, use libbsd-dev instead. Move EXT to debian.
* 00-Makefile: don't override CFLAGS set in environment.
* Switch to dpkg-source 3.0 (quilt) format.
* Use debhelper v9 and tiny debian/rules file.
* debian/control:
  + Build-Depends on libbsd-dev;
  + Standards-Version: 3.9.2;
  + use Breaks instead of versioned Conflicts;
  + add Vcs fields;
  + reformat the dependencies fields with `wrap-and-sort' command.
* Include full text of BSD licence in copyright (lintian).

-- Robert Luberda <robert@debian.org>  Sun, 20 Nov 2011 23:37:22 +0100

bsd-mailx (8.1.2-0.20100314cvs-1) unstable; urgency=low
* New upstream version from OpenBSD CVS repository.
* Follow upstream and stop installing the outdated documentation
  (closes: #455708); also remove doc-base file.
* debian/control:
  + depend on default-mta instead of exim4 (closes: #555495);
  + add ${misc:Depends} dependency (lintian);
  + Standards-Version: 3.8.4 (no changes).

-- Robert Luberda <robert@debian.org>  Sun, 14 Mar 2010 13:22:18 +0100

bsd-mailx (8.1.2-0.20090911cvs-2) unstable; urgency=medium

* Fix a bogus "can't send mail: sendmail process failed" errors appearing
  rarely on systems under heavy loads (closes: #550116).
  Many thanks to Ivan Zahariev <famzah(at)icdsoft.com> for his investigation
  and patch.

-- Robert Luberda <robert@debian.org>  Sat, 10 Oct 2009 11:21:11 +0200

bsd-mailx (8.1.2-0.20090911cvs-1) unstable; urgency=low

* New upstream release from OpenBSD repository.
* Fix grammar in description (closes: #515781).
* Drop mailx transitional package.
* Bump debhelper compat mode to 7.
* Standards-Version: 3.8.3

-- Robert Luberda <robert@debian.org>  Fri, 11 Sep 2009 18:14:22 +0200

bsd-mailx (8.1.2-0.20081101cvs-2) unstable; urgency=low

* Upload to unstable.

-- Robert Luberda <robert@debian.org>  Sun, 09 Nov 2008 09:00:25 +0100

bsd-mailx (8.1.2-0.20081101cvs-1) experimental; urgency=low

* New upstream release.
* Lower priority of mailx package to extra.
* Standards-Version: 3.8.0 (no changes).
* Remove duplicated `it' from description (lintian).

-- Robert Luberda <robert@debian.org>  Sat, 01 Nov 2008 12:40:12 +0100

bsd-mailx (8.1.2-0.20071201cvs-3) unstable; urgency=low

* Lower priority of mailx package to optional (see #477124).
* copyright: Add a copyright notice (lintian).
* Build depend on debhelper >= 6 (lintian).
* Change doc-base section to Network/Communication (lintian).

-- Robert Luberda <robert@debian.org> Sat, 26 Apr 2008 09:52:18 +0200

bsd-mailx (8.1.2-0.20071201cvs-2) unstable; urgency=medium

* Add conflict with old mailx packages (closes: #459621).
* Standards-Version: 3.7.3 (no changes).
* Fix invalid regexp in postinst.

-- Robert Luberda <robert@debian.org> Tue, 08 Jan 2008 23:01:18 +0100

bsd-mailx (8.1.2-0.20071201cvs-1) unstable; urgency=low

* New upstream version.
* Rename package to bsd-mailx, and create dummy mailx package for smooth upgrades.
* Manage /usr/bin/mailx with update-alternatives to allow other packages like mailutils or nail to be installed together with bsd-mailx.
* Remove outdated preinst script.

-- Robert Luberda <robert@debian.org> Sat, 01 Dec 2007 12:54:13 +0100

mailx (1:8.1.2-0.20071017cvs-2) unstable; urgency=low

* collect.c: Ooops, for debugging I commented out the line responsible for removing temporary, and forgot to uncomment it...

-- Robert Luberda <robert@debian.org> Fri, 19 Oct 2007 23:10:11 +0200

mailx (1:8.1.2-0.20071017cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* send.c: treat messages which contain only a new line sign as empty messages (closes: #355545).
* Fix `debian-rules-ignores-make-clean-error' lintian warning.
* Bump debhelper compat mode to v6.

-- Robert Luberda <robert@debian.org> Thu, 18 Oct 2007 23:35:53 +0200

mailx (1:8.1.2-0.20070424cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* Standards-Version: 3.7.2.
* Lower package priority to standard to match the override file.
* main.c: Replace with spaces any embeded newline passed in arguments
for '-s' and '-a' options (closes: #419840).
* mail: Fix a typo (closes: #411420).

-- Robert Luberda <robert@debian.org> Thu, 03 May 2007 12:09:36 +0200

mailx (1:8.1.2-0.20050715cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository:
  + fixed segfault in list.c (closes: #313306).
* Standard-Version: 3.6.2 (no changes).

-- Robert Luberda <robert@debian.org> Fri, 15 Jul 2005 00:28:33 +0200

mailx (1:8.1.2-0.20040524cvs-4) unstable; urgency=low

* Fix documentation of sendmail options in the man page and in the
  mailx's usage output (closes: #285259).

-- Robert Luberda <robert@debian.org> Sat, 18 Dec 2004 13:58:28 +0100

mailx (1:8.1.2-0.20040524cvs-3) unstable; urgency=medium

* fio.c: Fix segfault on wildcard expansion introduced in previous upload.
  Thanks to Yuri D'Elia for noticing this (see bug#148389).

-- Robert Luberda <robert@debian.org> Sat, 13 Nov 2004 22:23:14 +0100

mailx (1:8.1.2-0.20040524cvs-2) unstable; urgency=medium

* Bugfix release (closes: #278748):
  + fio.c: Use wordexpr() instead of calling /bin/echo not to allow
    executing external commands while expanding shell variables
    and wildcards.
  + names.c: isfileaddr function return false if '@', '!' or '%' i
    characters occur anywhere (e.g not only before the slash) in the
    recipient name.

-- Robert Luberda <robert@debian.org> Wed, 3 Nov 2004 20:46:39 +0100

mailx (1:8.1.2-0.20040524cvs-1) unstable; urgency=low

* New upstream version from OpenBSD CVS repository.
* debian/control: add exim4 alternative to mail-transport-agent
  dependency (closes: #248498).
* USD.doc/mail*.nr: changed references from /usr/lib/Mail.rc to
  /etc/mail.rc.
* USD.doc/Makefile, debian/rules: generate and install manual.txt
  (like in the upstream version).
* Removed lintian override file, it's no longer needed.
* Add lintian source overrides for `cvsignore-file-in-source'
  and `source-contains-CVS-dir'.

-- Robert Luberda <robert@debian.org>  Mon, 24 May 2004 23:03:47 +0200

mailx (1:8.1.2-0.20031014cvs-2) unstable; urgency=medium

* edit.c: if the external editor (called by ~e or ~v commands) fails for
  some reason, don't delete the temporary file if it has been modified.
  This partly fixes bug#148037.
* popen.c: print exit code of failed commands.
* quit.c: change message saying that mailbox was "removed" to "truncated"
  (closes: #196682); mailx does not remove mailboxes, see the entry
  for 1:8.1.2-0.20020316cvs-2 in this changelog for the reason.

-- Robert Luberda <robert@debian.org>  Wed, 31 Mar 2004 23:42:19 +0200

mailx (1:8.1.2-0.20031014cvs-l) unstable; urgency=low

* New upstream version from OpenBSD.
* Fix problem with building on Hurd (closes: #213929).
* mail.1: removed reference to non-existent lockspool man page.
* Standards-Version: 3.6.1 (no changes).

-- Robert Luberda <robert@debian.org>  Tue, 14 Oct 2003 20:48:51 +0200

mailx (1:8.1.2-0.20030521cvs-1) unstable; urgency=low

* New upstream version from OpenBSD.
* Added EXT/vis.[ch] files, needed for compiling this version.
* Minor fix in Makefile (closes: #181022).
* debian/control: Remove ending dot from synopsis line (lintian).
* Standards-Version: 3.5.10 (no changes).

-- Robert Luberda <robert@debian.org>  Thu, 22 May 2003 21:12:21 +0200

mailx (1:8.1.2-0.20020411cvs-5) unstable; urgency=low

* cmd1.c: Check if return value of screensize() > 0 (closes: #170784).
* Support DEB_BUILD_OPTIONS=noopt instead of debug.
* Build with debhelper v4.
* Standards-Version: 3.5.8.

-- Robert Luberda <robert@debian.org>  Sat,  7 Dec 2002 11:42:34 +0100

mailx (1:8.1.2-0.20020411cvs-4) unstable; urgency=low
* send.c: Always wait for a sendmail process, check its exit code and if non-zero, print a warning message to user and save original message to ~/dead.letter (closes: #145379).
* popen.c: Make wait_child() return an exit code of the child.

* mail.1: s/^\.ne li$/ne/g to fix groff warnings.

-- Robert Luberda <robert@debian.org> Sat, 24 Aug 2002 22:15:23 +0200

mailx (1:8.1.2-0.20020411cvs-3) unstable; urgency=low

* aux.c: in function alter() do initialize tv_usec part of the timeval structure used to set modification time on the mailbox file (closes: #152038).
   Thanks to John Girash for help.

-- Robert Luberda <robert@debian.org> Thu, 11 Jul 2002 05:21:34 +0200

mailx (1:8.1.2-0.20020411cvs-2) unstable; urgency=low

* collect.c: return from grabh() if stdin is not a terminal.
   This fixes the `-I' option (closes: #149005).

-- Robert Luberda <robert@debian.org> Tue, 18 Jun 2002 22:55:27 +0200

mailx (1:8.1.2-0.20020411cvs-1) unstable; urgency=high

* New upstream CVS snapshot, with only one change, which fixes potential security problem:
  + collect.c:
    Don't do tilde escapes unless we are in interactive mode. Now the behavior matches the man page...
* Many thanks to Michal Pajak for pointing out the problem.

-- Robert Luberda <robert@debian.org> Thu, 11 Apr 2002 19:07:59 +0200

mailx (1:8.1.2-0.20020316cvs-3) unstable; urgency=low

* fio.c: fixed previous patch (closes: #140527,#140485).

-- Robert Luberda <robert@debian.org> Tue, 2 Apr 2002 07:14:58 +0200

mailx (1:8.1.2-0.20020316cvs-2) unstable; urgency=low

* fio.c: Don't delete mailbox file, always truncate it, because liblockfile fails to remove the lock file if mailbox doesn't exist (closes: #111537).

-- Robert Luberda <robert@debian.org> Wed, 27 Mar 2002 09:20:08 +0100
mailx (1:8.1.2-0.20020316cvs-1) unstable; urgency=low

* Applied patches from Arnaud Giersch <arnaud.giersch@free.fr> which fix outstanding problems:
+ closes: #37104: Bug in all mailx* (tested: <=mailx_8.1.1-10).
+ closes: #71759: mailx concatenates messages.
MANY THANKS FOR YOUR HELP, Arnaud!

* New upstream version from OpenBSD CVS repository:
+ closes: #34752: mail causes segmentation fault when pushing Ctrl+C.
* This version uses strlcpy&strlcat functions, appropriate files were included in Debian patch.
* Added upstream changelog file, generated by hand from CVS logs using `cvs2cl --no-wrap -S'.
* Makefile: added -p option to install (preserve timestamps of installed files).

-- Robert Luberda <robert@debian.org> Tue, 26 Mar 2002 05:47:53 +0100

mailx (1:8.1.2-0.20010922cvs-3) unstable; urgency=low

* debian/copyright: text of BSD license can be found in common-licences, so do not include it here...

-- Robert Luberda <robert@debian.org> Fri,  4 Jan 2002 08:13:30 +0100

mailx (1:8.1.2-0.20010922cvs-2) unstable; urgency=low

* debian/copyright: removed 3th paragraph from the text of BSD license as suggested by Branden Robinson (closes: #123828).
* Upgraded standards version to 3.5.6 (no changes needed).

-- Robert Luberda <robert@debian.org> Sat, 22 Dec 2001 21:56:31 +0100

mailx (1:8.1.2-0.20010922cvs-1) unstable; urgency=low

* New version from OpenBSD cvs repository:
+ aux.c: In skin(), only add a space after a comma if there is actually a space in the input buffer. This prevents a rare buffer overflow on very long header lines... (closes: #108677). See #108677 for more info.
+ aux.c: In skin() don't die if realloc() fails since its only purpose is to shrink the buffer, not expand it.

* No other changes was made, so I think this version should go to woody as well.

-- Robert Luberda <robert@debian.org> Sun, 23 Sep 2001 21:42:22 +0200
mailx (1:8.1.2-0.20010705cvs-2) unstable; urgency=low

* Removed exim from exim|mail-transport-agent dependency (closes: #106122).
* Added a lintian override file for virtual-package-without-real-package-
dependency warning.
* Fix spelling in description of the package (closes: #106449).

-- Robert Luberda <robert@debian.org> Wed, 8 Aug 2001 23:31:21 +0200

mailx (1:8.1.2-0.20010705cvs-1) unstable; urgency=low

* New version from OpenBSD cvs.
* Updated copyright and README.Debian files.
* Removed IOSAFE patch - it wasn't used.
* REPLYTO can be set in ~/.mailrc too.

-- Robert Luberda <robert@debian.org> Thu, 12 Jul 2001 18:58:01 +0200

mailx (1:8.1.2-0.20010319cvs-4) unstable; urgency=low

* Applied patch from Tormod Volden <volden@iqe.phys.ethz.ch>, which adds
"showname" option to mailx (closes: #96867).
* v7.local.c: Removed /var/spool/mail hack added by Paul in 1:8.1.1-10.1.1
* quit.c: Use lockf instead if flock.
* quit.c: Add missing newline in `Saved ...' message.
* Added doc-base support.
* Added versioned dependency on base-files, as suggested in upgrading-
  checklist for Debian Policy 3.5.4.
* Standards-Version: 3.5.5

-- Robert Luberda <robert@debian.org> Tue, 12 Jun 2001 23:43:10 +0200

mailx (1:8.1.2-0.20010319cvs-3) unstable; urgency=low

* Applied some patches from FreeBSD:
  + Add Relpy-To header if REPLYTO environment variable is set.
  + Add In-Reply-To header for replies (closes: #23115).
* When saving messages to mbox, print its real filename (closes: #68920).
  Thanks to Tollef Fog Heen for patch.
* /etc/mail.rc: Add Delivered-To to list of ignored headers.

-- Robert Luberda <robert@debian.org> Wed, 4 Apr 2001 00:20:57 +0200

mailx (1:8.1.2-0.20010319cvs-2) unstable; urgency=low

* Don't ask about (B)Cc: header twice (closes: #90822).
mailx (1:8.1.2-0.20010319cvs-1) unstable; urgency=medium

* New maintainer (closes: #90146).
* New upstream version from OpenBSD CVS repository.
* Security fix: don't install mailx binary setgid mail.
   Now the liblockfile library is used for mailbox locking.
* cmd3.c: Initialize head variable with NULLs. This should fix
   problem with garbage text when replying (closes: #84166).
* Add conflicts with older suidmanager.
* Helpfiles moved to /usr/share/mailx.
* Added support for DEB_BUILD_OPTIONS=debug,nostrip.
* Updated Standards-Version: 3.5.2
* Switch to debhelper v3.
* Updated Build-Depends field.
* Closing bugs fixed in NMUs (closes: #23901, #64238, #68725, #68745).

-- Robert Luberda <robert@debian.org>  Thu, 22 Mar 2001 08:05:56 +0100

mailx (1:8.1.1-10.3) unstable; urgency=low

* debian/rules: added install dependancy to binary-arch (Closes: Bug#83361).

-- Edward Betts <edward@debian.org>  Sun, 28 Jan 2001 14:40:05 -0700

mailx (1:8.1.1-10.2) unstable; urgency=low

* debian/control: Standards-Version updated.
* debian/control: Build-Depends added.
* debian/control: Depends line fixed (Closes: Bug#41909).
* debian/rules: rewritten, still uses debhelper.
* Makefile: man pages moved to /usr/share/man (Closes: Bug#80758).
* applied patch from Martin Schulze (Closes: Bug#23356, Bug#13756).
* applied patch from Ulf Jaenicke-Roessler <ujr@physik.phy.tu-dresden.de>
  (Closes: Bug#26757, Bug#40424).
* misc/mail.help, USD.doc/mail[1568].nr: changed references from
  /usr/spool/mail to /var/mail (Closes: Bug#41910).
* send.c: Comment out bcc code (Closes: Bug#75232).
* pathnames.h: Change default shell from /bin/csh to /bin/sh.
* pathnames.h: Change default pager from /bin/more to
  /usr/bin/pager (Closes: Bug#41228).
* pathnames.h: Change default editor from /bin/ex to /usr/bin/editor
  (Closes: Bug#66385).
* debian/rules: stop using dh_suidregister

-- Edward Betts <edward@debian.org>  Sun, 14 Jan 2001 12:36:16 -0700
mailx (1:8.1.1-10.1.3) frozen unstable; urgency=high

* Fix the security fix: only accept a couple environment variables instead of blindly using them all

-- Wichert Akkerman <wakkerma@debian.org> Tue, 8 Aug 2000 11:42:02 -0700

mailx (1:8.1.1-10.1.2) frozen unstable; urgency=high

* Another security problem: refuse to get the interactive variable from the environment by explicitly setting it in the hashtable.

-- Wichert Akkerman <wakkerma@debian.org> Mon, 7 Aug 2000 12:36:10 -0700

mailx (1:8.1.1-10.1.1) frozen unstable; urgency=high

* NMU to fix RC bug. Now accepts both /var/mail and /var/spool/mail as allowed places for setgid file manipulation. fixes:#64238

-- Paul Slootman <paul@debian.org> Thu, 8 Jun 2000 19:51:14 +0200

mailx (1:8.1.1-10.1) stable frozen unstable; urgency=high

* Security fix for a GID=mail shell.

-- Daniel Jacobowitz <dan@debian.org> Sun, 4 Jun 2000 22:45:19 -0700

mailx (1:8.1.1-10) frozen unstable; urgency=high

* correct major security flaw, patch from Alvaro Martinez Echevarria <alvaro@lander.es>, bug#23880, bug#23901

* other potential buffer overflow, patch from Juan-Mariano de Goyeneche <jmseyas@selva.dit.upm.es>, bug #22937

-- Loic Prylli <Loic.Prylli@graville.fdn.fr> Sun, 28 Jun 1998 20:15:18 -0400

mailx (1:8.1.1-9) frozen unstable; urgency=high

* recompile without the signal handling workarounds (lo that eliminate critical bugs where message parts can be lost (#20798) and (#20558)

-- Loic Prylli <lprylli@graville.fdn.fr> Thu, 9 Apr 1998 02:11:26 +0200

mailx (1:8.1.1-8) frozen unstable; urgency=high
* previous patch broke most file accesses, corrected safe_open (#20634)
* try to check every access to Fopen, change "a" into "w" for new files, to suit behaviour of safe_open.

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 4 Apr 1998 22:01:19 +0200

mailx (1:8.1.1-7) frozen; urgency=medium

* security fix for tmp races patch from Martin Schulze (#20059)

-- Loic Prylli <lprylli@graville.fdn.fr> Mon, 23 Mar 1998 22:52:35 +0100

mailx (1:8.1.1-6) unstable; urgency=low

* convert to debhelper
* changelog now compressed (bug#15431)
* removed .orig and .rej from source (bug#18409)

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 14 Feb 1998 14:34:22 +0100

mailx (1:8.1.1-5) unstable; urgency=low

* apply David Brown patch so mailx choose the right window size
  (#12197)
* correct Depends: in control file.

-- Loic Prylli <lprylli@graville.fdn.fr> Sat, 15 Nov 1997 00:30:38 +0100

mailx (1:8.1.1-4) unstable; urgency=high

* mailx was sending empty message, ignoring user input
  add clearerr when EAGAIN occur in "IOSAFE" code (#14263)

-- Loic Prylli <lprylli@graville.fdn.fr> Tue, 11 Nov 1997 20:22:35 +0100

mailx (1:8.1.1-3.1) unstable; urgency=low

* Non-maintainer release.
* Libc6 compile. (#11705)
* Install missing symlink to manpage. (#7274)

-- Martin Mitchell <martin@debian.org> Wed, 29 Oct 1997 04:34:39 +1100

mailx (1:8.1.1-3) unstable; urgency=low

* add dpkg --assert-working-epoch in preinst bug#6850
* add writing of pid in mailbox locking file
* fix: mailx was not removing temporary lock files
mailx (1:8.1.1-2) unstable; urgency=low

* correct bug #2733 (occur when no space left) dans quit.c
* detection of From_ lines with tring to match the date bug#2010
* corrected garble output bug #2284

mailx (1:8.1.1-1) unstable; urgency=medium

* recreate completely starting from OpenBSD mail version (we loose a lot of extension but we have a working program now)
* OpenBSD base version is the last one in december 96
* rechange the numbering of version, so epoch 1+8.1 is from 4.4BSD, the last upstream digit is to change each time we update to a new openbsd version.
* fix the problem of longjmp inside signals inside stdio calls
* reincorporate a patch to be dot file locking+setgid safe
* some fix in signal handling

Mon Apr 29 17:21:42 1996  Sven Rudolph <sr1@inf.tu-dresden.de>

* releasing 8.5.5-1

* added symlink /usr/bin/Mail -> /usr/bin/mailx

Thu Apr 25 23:55:36 1996  Sven Rudolph <sr1@inf.tu-dresden.de>

* set version number to 8.5.5 because it has to superseed 8.1

* switched back to mailx-5.5-kw (see mailx-5.5-kw.diff.README)

* no POP support

mailx 8.1 Debian 5 - 10/19/95 Sven Rudolph <sr1@inf.tu-dresden.de>
* uses now BSD signal emulation (/usr/include/bsd/signal.h)
* added virtual package names in Depends: and Provides fields (Bug#1460)
* added Section: field
* created symlink for mailx manpage (Bug#1114)

mailx 8.1 Debian 4 - 5/20/95 Carl Streeter <streeter@cae.wisc.edu>
* Added diffs from Delman Lee <delman@mipg.upenn.edu>:  

-- Loic Prylli <lprylli@graville.fdn.fr>  Sat, 1 Feb 1997 11:44:04 +0100

-- Loic Prylli <lprylli@graville.fdn.fr>  Sat, 28 Dec 1996 15:02:22 +0100

-- Loic Prylli <lprylli@graville.fdn.fr>  Mon, 23 Dec 1996 01:57:44 +0100
Hi! I got mailx-8.1-3 from the Linux Debian distribution, and have added a "hold-pop" option to hold messages on the POP server after retrieving them. (Also fixed a minor bug with mailx thinking that there is mail even if the POP mailbox is empty. Code around stat() below.)

mailx 8.1 Debian 3 - 4/18/95 Carl Streeter <streeter@cae.wisc.edu>
* Fixed control file to depend on smail|sendmail. Updated to latest guidelines
bsd-mailx source: source-contains-cvs-control-dir
#!/usr/bin/make -f

include /usr/share/dpkg/architecture.mk

ifeq ($(DEB_HOST_GNU_TYPE),$(DEB_BUILD_GNU_TYPE))
  export CC = $(DEB_HOST_GNU_TYPE)-gcc
else
  export CC = gcc
endif

%:
dh "$@" --parallel

override_dh_auto_clean:
  # Don't try to run make clean on unpatched version of Makefile
  ! grep -q DEBIAN Makefile || dh_auto_clean

override_dh_installchangelogs:
dh_installchangelogs -a debian/EXT/ChangeLog
etc
usr/bin
usr/share/bsd-mailx
usr/share/man/man1
bsd-mailx for DEBIAN

----------------------

The history of this package is quite complicated. The changelog includes a summary with the different maintainers.

At the beginning of Debian, I think this package was based on a BSD 5.5 mail version from FreeBSD.

There has been a lot on work on the package shipped with Debian 0.93R6, which was based a BSD 8.1 mail version from BSD4.4Lite. The extensions includes support for dotfile locking, setgid support, POP support, signal handling hacks.

here is a README originally found:
  + README for Berkely mailx version 8.1 with POP extension
This is "mailx", a simple program for sending and receiving email.

This is based on mailx version 8.1 (as distributed with BSD 4.4lite).

It has been extended to support the post-office protocol (POP). Run
"mail -p" and it will retrieve your email from a POP server rather than
from your local mail queue. See the manual page for more details.

The POP support was written by Jonathan I. Kamens for version mailx 5.5
(as distributed with BSD 4.3.)

The POP support was integrated into version 8.1 by Salvatore Valente
for no particular reason. (It would have been simpler for me to
simply use Jonathan's 5.5 source tree. There are no major differences
between the two versions.)

Have a nice day.

-Salvatore Valente. <svalente@athena.mit.edu>

5/12/94

PORTING

Before attempting to compile this for _any_ system, you should do two
things:

Edit CFLAGS in Makefile.
Edit pathnames.h.

These sources are _extremely_ BSDish. I have successfully built this
for Linux, BSD 4.3, NetBSD, Ultrix, Aix, and SunOS. I have never
successfully gotten it to build for Solaris or any System 5ish system.

If you want to try, here are some issues you will face:

It uses BSD signal() semantics. Use sigaction().
It uses BSD longjmp() semantics. Use siglongjmp().
It uses BSD sgtty. Use termios.
It uses BSD signal mask functions. Use posix sigmask functions.

There will probably be other hurdles too. Good luck.

With Debian1.1 a switch was done to a version base on a BSD5.5 mail
program, because of signal handling problems (which I think were due
to bad compilation options). So no more POP support. Some patches
from Ken Whang <Kenneth.C.Whang-1@umn.edu> included, the corresponding
README was:
+ mailx-5.5-kw 5/30/95
+
+ WHAT'S IN THIS PATCH
+
+ There are a bunch of little features, common in System V and SunOS
+ versions of mailx, that are missing from the NetBSD-based version
+ distributed with Linux. This patch attempts to fill in some of what's
+ missing.
+
+ Changes from debian mailx-5.5 include:
+ 5/4/95:
+ -- interpret prompt variable
+ -- interpret ~a and ~A tilde escapes
+ -- updated tildehelp list
+ -- changed mail.rc to ignore nothing (just my personal preference)
+ -- accept From lines with times of the form hh:mm (formerly took only hh:mm:ss)
+
+ 5/7/95:
+ -- Save (S) command saves to mailbox named after author
+ -- take startup commands from file named by environment variable MAILRC
+
+ 5/30/95:
+ -- -H switch for header summary only
+
+ Still to be done:
+ -- pipe ~p output through PAGER (see type1 in cmd1.c for an example)
+ -- save (s) by default to MBOX (instead of "No file specified.")
+ -- ~q should save to dead.letter, ~x is not known
+ -- update man page
+ -- allnet and showto ("showto" shows recipient instead of sender if sender
+ is current user)
+
+ Possibly difficult:
+
+ -- interpret editheaders variable as in SunOS version
+
+ Bugs:
+
+ -- ~a/~A tilde escapes leave an extra trailing blank on each line
+ -- to conform to original style, I should really be using char *cp
+ instead of new variables sig and prompt to be looking up variables
+ -- -H switch implementation is kind of gross. grep for "hdronly" in
HOW TO INSTALL

Apply Sal Valente's debian patch first, so:

tar xvfz mailx-5.5.tar.gz
cd mailx-5.5
zcat ./mailx-5.5.debian.diff.gz | patch -p1
zcat ./mailx-5.5-kw.diff.gz | patch -p1
make

Or you may wish to just uncompress the diff file and pick and choose the changes that you like.

AUTHOR

Ken Whang <Kenneth.C.Whang-1@umn.edu>

This version has no provision for the debian mail policy (permission on /var/mail+dotfile locking), so Loic Prylli <lprylli@graville.fdn.fr> finally recreate a package based on the OpenBSD mail with the minimum number of patches to make it suited for debian (see changelog). There is no more POP support, nor the added functionality from Ken Whang, but all these patches are archived, so mail <lprylli@graville.fdn.fr> if you want them to be incorporated.

Loic Prylli <lprylli@graville.fdn.fr>, Mon, 23 Dec 1996 00:13:13 +0100

Sat Apr  4 14:05:38 CEST 1998:
After a security patch to fix tmp races, a number of things broke.
Here is what I have tried to fix them:
The rationale is to have all file openings go through safe_open:
File opened in mode "w", "w+", are created with O_EXCL mode,
(should coincide with temporary files or new files)
Files with "a" "a+" et "r+" mode do not require the O_EXCL files. "a+" et "r+" do not creat the file.

Still to do: check creat calls
diff-ignore
tar-ignore

This package was debianized by Loic Prylli <lprylli@graville.fdn.fr> on
Mon, 23 Dec 1996 00:13:13 +0100.
The package is currently maintained by Robert Luberda <robert@debian.org>
It is now based on OpenBSD in directory src/usr.bin/mail on a lot of major ftp sites.
See the README.Debian (and changelog.Debian) for the complicated history of the Debian package.

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3.0 (quilt)
00-Makefiles.patch
01-Fix-includes.patch
02-Base-fixes-1.patch
03-Base-fixes-2.patch
04-Add-custom-header.patch
05-Mailx-fixes.patch
06-Use-lockf-instead-of-flock.patch
07-Initialize-head-struct.patch
08-Use-liblockfile-library.patch
09-Saved-mbox-message.patch
10-Reply-To-header.patch
11-Showname-option.patch
12-REPLYTO-can-be-set-in-.mailrc-too.patch
13-Mailx-concatenates-messages.patch
14-Truncate-mailbox-instead-of-deleting-it.patch
15-No-space-left-in-tmp.patch
16-Stdin-not-a-tty.patch
17-Initlalize-tv_used.patch
18-Wait-for-sendmail.patch
19-Fix-compilation-on-Hurd.patch
20-Don-t-delete-temporary-file.patch
21-Use-wordexpr-instead-of-echo.patch
22-Replace-newlines-with-spaces.patch
24-False-cant-send-email-errors.patch
25-Fix-confusing-error.patch
80-remove_T.patch
81-minus_f.patch
82-expandaddr.patch
83-nosendmail.patch

1.431 javax-interceptor-api 1.2.2

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Gocheck - A rich testing framework for Go

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1.443 vim 7.4.629-7.el7

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*uganda.txt*    For Vim version 7.4.  Last change: 2013 Jul 06

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SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
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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|.

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   that you made from the unmodified Vim sources, plus your own usage
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    conditions are met:
1) This license text must be included unmodified.

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      (in any way) for a copy of the modified Vim you distributed, you
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      maintainer will do with your changes and under what license they
      will be distributed is negotiable. If there has been no negotiation
      then this license, or a later version, also applies to your changes.
      The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
      changes it will be announced in appropriate places (most likely
      vim.sf.net, www.vim.org and/or comp.editors). When it is completely
      impossible to contact the maintainer, the obligation to send him
      your changes ceases. Once the maintainer has confirmed that he has
      received your changes they will not have to be sent again.
   b) If you have received a modified Vim that was distributed as
      mentioned under a) you are allowed to further distribute it
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      text under a) applies to those changes.
   c) Provide all the changes, including source code, with every copy of
      the modified Vim you distribute. This may be done in the form of a
      context diff. You can choose what license to use for new code you
      add. The changes and their license must not restrict others from
      making their own changes to the official version of Vim.
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      - You keep the changes for at least three years after last
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        available to him.
      - You clearly describe in the distribution how to contact you. This
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        after last distributing the corresponding modified Vim, or as long
        as possible.
   e) When the GNU General Public License (GPL) applies to the changes,
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      any later version.

3) A message must be added, at least in the output of the ":version"
   command and in the intro screen, such that the user of the modified Vim
   is able to see that it was modified. When distributing as mentioned
under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

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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
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:
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
Open Source Used In NAE (5.0) Florence Peak (version 5.0) 5.0.1.2  4039

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:

1.444 cglib 3.2.9

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1.449 efibootmgr 17 2.el7

1.450 mongodb-aggregate-query-support-core 0.8.2

1.451 jackson 2.9.5
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1.453 perl 1.04 294.el7_6

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { 
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
  {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\b(\d{4,})\b/; 
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /\s+copyright 1987.*\b(\d{4,})\b/;
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}

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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.454 aopalliance-repackaged 2.5.0-b32
1.455 okio 2.2.2

1.456 qrencode 3.4.1 3.el7
1.456.1 Available under license:

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* 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.  
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Support for multiple configuration files in libsensors.

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1.465 jopt-simple 5.0.2

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*/

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* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/internal/Columns.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/internal/Rows.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/internal/Row.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/internal/ConstructorInvokingValueConverter.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/util/DateConverter.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/internal/Classes.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/HelpFormatter.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/internal/Strings.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/OptionSet.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/NonOptionArgumentSpec.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/internal/ReflectionException.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/OptionSpecTokenizer.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/UnavailableOptionException.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/internal/SimpleOptionNameMap.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/ArgumentList.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/NoArgumentOptionSpec.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/ArgumentAcceptingOptionSpec.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/ParserRules.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/internal/MethodInvokingValueConverter.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-jar/joptsimple/AbstractOptionSpec.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5-0-2-sources-1-
MissingRequiredOptionsException.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/OptionParser.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/OptionParseException.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/OptionException.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/OptionMissingRequiredArgumentException.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/UnconfiguredOptionException.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/internal/OptionNameMap.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/BuiltinHelpFormatter.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/IllegalOptionSpecificationException.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/OptionSpecBuilder.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/ValueConversionException.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/MultipleArgumentsForOptionException.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/UnrecognizedOptionException.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/RequiredArgumentOptionSpec.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/internal/Message.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/OptionDescriptor.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/OptionalArgumentOptionSpec.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/OptionSpec.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/util/RegexMatcher.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/AlternativeLongOptionSpec.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/OptionArgumentConversionException.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/util/InetAddressConverter.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/internal/AbbreviationMap.java
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple/OptionParserState.java
jar/joptsimple/internal/Reflection.java
*/
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5.0-2-sources-1-
jar/joptsimple/ValueConverter.java
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*/
* /opt/ws_local/PERMITS_SQL/1032655745_1594238171.64/0/jopt-simple-5.0-2-sources-1-
jar/joptsimple/util/EnumConverter.java

1.466 spring-boot-loader-tools 2.0.1
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2006-Jan-27

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* /opt/ws_local/PERMITS_SQL/1050354490_1591726454.95/0/stateless4j-2-5-0-sources-1-jar/com/github/oxo42/stateless4j/OutVar.java

1.482 harfbuzz 1.7.5-2.el7

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1.483 libsm 1.2.2 2.el7

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Protocol Buffers for Go with Gadgets

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Go support for Protocol Buffers - Google's data interchange format

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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 3a0982da308228d796df35f98d787c5c5f2bb5b6.

   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 piostream 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.
1.491 opensaml-xmlsec-api 3.3.0

1.492 curl 7.29.0-54.el7_7.2

1.492.1 Available under license:

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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/

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axTLS   http://axtls.sourceforge.net/

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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

(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.

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(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.

[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL

1.493 pyserial 2.6 6.el7
1.493.1 Available under license:

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1.494 json-path 2.4.0

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jar/io/netty/handler/ssl/SslContext.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-
jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-
jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java

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jar/io/netty/handler/stream/ChunkedFile.java
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jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-
jar/io/netty/handler/timeout/package-info.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-
jar/io/netty/handler/stream/package-info.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-
jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-
jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-
jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-
jar/io/netty/handler/timeout/package-info.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-
jar/io/netty/handler/logging/package-info.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-
jar/io/netty/handler/logging/LogLevel.java
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* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1.jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1.jar/io/netty/handler/timeout/package-info.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1.jar/io/netty/handler/stream/ChunkedNioStream.java

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* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1.jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1.jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
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  jar/io/netty/handler/ssl/Java9SslEngine.java
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/opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
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/opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-jar/io/netty/handler/ssl/PemEncoded.java

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* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-jar/io/netty/handler/ssl/ClientAuth.java
* /opt/ws_local/PERMITS_SQL/1071978562_1594967878.94/0/netty-handler-4-1-30-final-sources-1-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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1.503 avahi 0.6.31-19.el7

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1.513 perl-encode 2.51-7.el7
1.513.1 Available under license:
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
  - unknown
buildRequires:
  ExtUtils::MakeMaker: 0
configureRequires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Encode
no_index:
directory:
  - t
  - inc
requires: {}
version: 2.51
NAME
   Encode::$_Name_ - <describe encoding>

SYNOPSIS
   use Encode::$_Name_;  
   #@<put more words here>#

ABSTRACT
   <fill this in>

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

DEPENDENCIES

This module requires perl version 5.7.3 or later.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009860379_1594194177.94/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-5nFhl5I8/Encode-2.51.tar.gz-cosi-expand-archive-P0TWm66s/Encode-2.51/META.yml
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009860379_1594194177.94/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-5nFhl5I8/perl-Encode.spec
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is a proprietary name.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009860379_1594194177.94/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-5nFhl5I8/Encode-2.51.tar.gz-cosi-expand-archive-P0TWm66s/Encode-2.51/lib/Encode/Supported.pod

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

=head1 NAME

Encode - character encodings in Perl

=head1 SYNOPSIS

use Encode qw(decode encode);

$characters = decode('UTF-8', $octets, Encode::FB_CROAK);

$octets = encode('UTF-8', $characters, Encode::FB_CROAK);

=head2 Table of Contents

Encode consists of a collection of modules whose details are too extensive to fit in one document. This one itself explains the top-level APIs and general topics at a glance. For other topics and more details, see the documentation for these modules:

=over 2
=item L<Encode::Alias> - Alias definitions to encodings
=item L<Encode::Encoding> - Encode Implementation Base Class
=item L<Encode::Supported> - List of Supported Encodings
=item L<Encode::CN> - Simplified Chinese Encodings
=item L<Encode::JP> - Japanese Encodings
=item L<Encode::KR> - Korean Encodings
=item L<Encode::TW> - Traditional Chinese Encodings
=back

=head1 DESCRIPTION

The C<Encode> module provides the interface between Perl strings and the rest of the system. Perl strings are sequences of
The repertoire of characters that Perl can represent is a superset of those defined by the Unicode Consortium. On most platforms the ordinal values of a character as returned by \$ord("S") is the Unicode codepoint for that character. The exceptions are platforms where the legacy encoding is some variant of EBCDIC rather than a superset of ASCII; see L<perlencoding>.

During recent history, data is moved around a computer in 8-bit chunks, often called "bytes" but also known as "octets" in standards documents. Perl is widely used to manipulate data of many types: not only strings of characters representing human or computer languages, but also "binary" data, being the machine's representation of numbers, pixels in an image, or just about anything.

When Perl is processing "binary data", the programmer wants Perl to process "sequences of bytes". This is not a problem for Perl: because a byte has 256 possible values, it easily fits in Perl's much larger "logical character".

This document mostly explains the L<how>. L<perlunitut> and L<perlunifaq> explain the L<why>.

=head2 TERMINOLOGY

=head3 character

A character in the range 0 .. \(2^{32}-1\) (or more); what Perl's strings are made of.

=head3 byte

A character in the range 0..255; a special case of a Perl character.

=head3 octet

8 bits of data, with ordinal values 0..255; term for bytes passed to or from a non-Perl context, such as a disk file, standard I/O stream, database, command-line argument, environment variable, socket etc.

=head1 THE PERL ENCODING API

=head2 Basic methods

=head3 encode
$octets = encode(ENCODING, STRING[, CHECK])

Encodes the scalar value I<STRING> from Perl's internal form into I<ENCODING> and returns a sequence of octets. I<ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">. For CHECK, see L</"Handling Malformed Data">.

For example, to convert a string from Perl's internal format into ISO-8859-1, also known as Latin1:

$$octets = encode("iso-8859-1", $string);$$

B<CAVEAT>: When you run C<$octets = encode("utf8", $string)>; then $octets I<might not be equal to> $string. Though both contain the same data, the UTF8 flag for $octets is I<always> off. When you encode anything, the UTF8 flag on the result is always off, even when it contains a completely valid utf8 string. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.

=head3 decode

$string = decode(ENCODING, OCTETS[, CHECK])

This function returns the string that results from decoding the scalar value I<OCTETS>, assumed to be a sequence of octets in I<ENCODING>, into Perl's internal form. The returns the resulting string. As with encode(), I<ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">; for I<CHECK>, see L</"Handling Malformed Data">.

For example, to convert ISO-8859-1 data into a string in Perl's internal format:

$$string = decode("iso-8859-1", $octets);$$

B<CAVEAT>: When you run C<$string = decode("utf8", $octets)>; then $string I<might not be equal to> $octets. Though both contain the same data, the UTF8 flag for $string is on unless $octets consists entirely of ASCII data on ASCII machines or EBCDIC on EBCDIC machines. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.

=head3 find_encoding

[$obj =] find_encoding(ENCODING)
Returns the \texttt{I<encoding object>} corresponding to \texttt{I<ENCODING>}. Returns \texttt{C<undef>} if no matching \texttt{I<ENCODING>} is found. The returned object is what does the actual encoding or decoding.

\begin{verbatim}
$utf8 = decode($name, $bytes);
\end{verbatim}

is in fact

\begin{verbatim}
$utf8 = do {
    $obj = find_encoding($name);
    croak qq(encoding "$name" not found) unless ref $obj;
    $obj->decode($bytes);
};
\end{verbatim}

with more error checking.

You can therefore save time by reusing this object as follows;

\begin{verbatim}
my $enc = find_encoding("iso-8859-1");
while(<>) {
    my $utf8 = $enc->decode($_);
    ... # now do something with $utf8;
}
\end{verbatim}

Besides \texttt{L</decode>} and \texttt{L</encode>}, other methods are available as well. For instance, \texttt{C<name()>} returns the canonical name of the encoding object.

\begin{verbatim}
find_encoding("latin1")->name; # iso-8859-1
\end{verbatim}

See \texttt{L<Encode::Encoding>} for details.

=header from_to

\begin{verbatim}
[$length =] from_to($octets, FROM_ENC, TO_ENC [, CHECK])
\end{verbatim}

Converts \texttt{I<in-place>} data between two encodings. The data in \texttt{$octets} must be encoded as octets and \texttt{I<br>not>} as characters in Perl's internal format. For example, to convert ISO-8859-1 data into Microsoft's CP1250 encoding:

\begin{verbatim}
from_to($octets, "iso-8859-1", "cp1250");
\end{verbatim}

and to convert it back:

\begin{verbatim}
from_to($octets, "cp1250", "iso-8859-1");
\end{verbatim}
Because the conversion happens in place, the data to be converted cannot be a string constant: it must be a scalar variable.

C<from_to()> returns the length of the converted string in octets on success, and C<undef> on error.

B<CAVEAT>: The following operations may look the same, but are not:

from_to($data, "iso-8859-1", "utf8"); #1
$data = decode("iso-8859-1", $data); #2

Both #1 and #2 make $data consist of a completely valid UTF-8 string, but only #2 turns the UTF8 flag on. #1 is equivalent to:

$data = encode("utf8", decode("iso-8859-1", $data));

See L</"The UTF8 flag"> below.

Also note that:

from_to($octets, $from, $to, $check);

is equivalent to

$octets = encode($to, decode($from, $octets), $check);

Yes, it does I<not> respect the $check during decoding. It is deliberately done that way. If you need minute control, use C<decode> followed by C<encode> as follows:

$octets = encode($to, decode($from, $octets, $check_from), $check_to);

=head3 encode_utf8

$octets = encode_utf8($string);

Equivalent to C<$octets = encode("utf8", $string)>. The characters in $string are encoded in Perl's internal format, and the result is returned as a sequence of octets. Because all possible characters in Perl have a (loose, not strict) UTF-8 representation, this function cannot fail.

=head3 decode_utf8

$string = decode_utf8($octets [, CHECK]);

Equivalent to C<$string = decode("utf8", $octets [, CHECK])>. The sequence of octets represented by $octets is decoded from UTF-8 into a sequence of logical characters.
Because not all sequences of octets are valid UTF-8, it is quite possible for this function to fail. For CHECK, see L</"Handling Malformed Data">.

=head2 Listing available encodings

use Encode;
@list = Encode->encodings();

Returns a list of canonical names of available encodings that have already been loaded. To get a list of all available encodings including those that have not yet been loaded, say:

@all_encodings = Encode->encodings(":all");

Or you can give the name of a specific module:

@with_jp = Encode->encodings("Encode::JP");

When "C<::>" is not in the name, "C<Encode::>" is assumed.

@ebcdic = Encode->encodings("EBCDIC");

To find out in detail which encodings are supported by this package, see L<Encode::Supported>.

=head2 Defining Aliases

To add a new alias to a given encoding, use:

use Encode;
use Encode::Alias;
define_alias(NEWNAME => ENCODING);

After that, I<NEWNAME> can be used as an alias for I<ENCODING>. I<ENCODING> may be either the name of an encoding or an I<encoding object>.

Before you do that, first make sure the alias is nonexistent using C<resolve_alias>., which returns the canonical name thereof. For example:

Encode::resolve_alias("latin1") eq "iso-8859-1" # true
Encode::resolve_alias("iso-8859-12") # false; nonexistent
Encode::resolve_alias($name) eq $name # true if $name is canonical

C<resolve_alias> does not need C<use Encode::Alias>; it can be imported via C<use Encode qw(resolve_alias)>.
Find IANA Character Set Registry names

The canonical name of a given encoding does not necessarily agree with IANA Character Set Registry, commonly seen as C<< Content-Type: text/plain; charset=I<WHATEVER> >>. For most cases, the canonical name works, but sometimes it does not, most notably with "utf-8-strict".

As of C<Encode> version 2.21, a new method C<mime_name()> is therefore added.

use Encode;
my $enc = find_encoding("UTF-8");
warn $enc->name;      # utf-8-strict
warn $enc->mime_name; # UTF-8

See also: L<Encode::Encoding>

Encoding via PerlIO

If your perl supports C<PerlIO> (which is the default), you can use a C<PerlIO> layer to decode and encode directly via a filehandle. The following two examples are fully identical in functionality:

### Version 1 via PerlIO

open(INPUT,  "< :encoding(shiftjis)"  , $infile)
  || die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :encoding(euc-jp)" ,  $outfile)
  || die "Can't open > $output for writing: $!";
while (<INPUT>) {  # auto decodes $_
    print OUTPUT;   # auto encodes $_
}
close(INPUT)  || die "can't close $infile: $!";
close(OUTPUT) || die "can't close $outfile: $!";

### Version 2 via from_to()

open(INPUT,  "< :raw"  , $infile)
  || die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :raw",  $outfile)
  || die "Can't open > $output for writing: $!";

while (<INPUT>) {
    from_to($_, "shiftjis", "euc-jp", 1);  # switch encoding
    print OUTPUT;   # emit raw (but properly encoded) data
}
close(INPUT)  || die "can't close $infile: $!";
close(OUTPUT) || die "can't close $outfile: $!";
In the first version above, you let the appropriate encoding layer handle the conversion. In the second, you explicitly translate from one encoding to the other.

Unfortunately, it may be that encodings are `PerlIO`-savvy. You can check to see whether your encoding is supported by `PerlIO` by invoking the `PerlIO` method on it:

```perl
Encode::perlio_ok("hz"); # false
find_encoding("euc-cn")->perlio_ok; # true wherever PerlIO is available
```

```perl
use Encode qw(perlio_ok); # imported upon request
perlio_ok("euc-jp")
```

Fortunately, all encodings that come with `Encode` core are `PerlIO`-savvy except for `hz` and `ISO-2022-kr`. For the gory details, see `L<Encode::Encoding>` and `L<Encode::PerlIO>`.

=head1 Handling Malformed Data

The optional `CHECK` argument tells `Encode` what to do when encountering malformed data. Without `CHECK`, `Encode::FB_DEFAULT` (== 0) is assumed.

As of version 2.12, `Encode` supports coderef values for `CHECK`; see below.

B<NOTE:> Not all encodings support this feature. Some encodings ignore the `CHECK` argument. For example, `L<Encode::Unicode>` ignores `CHECK` and it always croaks on error.

=head2 List of `CHECK` values

=head3 FB_DEFAULT

`CHECK` = `Encode::FB_DEFAULT` (== 0)

If `CHECK` is 0, encoding and decoding replace any malformed character with a `SUBCHAR`. When you encode, `SUBCHAR` is used. When you decode, the Unicode REPLACEMENT CHARACTER, code point U+FFFD, is used. If the data is supposed to be UTF-8, an optional lexical warning of warning category C<"utf8"> is given.

=head3 FB_CROAK

`CHECK` = `Encode::FB_CROAK` (== 1)
If I<CHECK> is 1, methods immediately die with an error message. Therefore, when I<CHECK> is 1, you should trap exceptions with C<eval{ }>, unless you really want to let it C<die>.

=head3 FB_QUIET

I<CHECK> = Encode::FB_QUIET

If I<CHECK> is set to C<Encode::FB_QUIET>, encoding and decoding immediately return the portion of the data that has been processed so far when an error occurs. The data argument is overwritten with everything after that point; that is, the unprocessed portion of the data. This is handy when you have to call C<decode> repeatedly in the case where your source data may contain partial multi-byte character sequences, (that is, you are reading with a fixed-width buffer). Here's some sample code to do exactly that:

my($buffer, $string) = ("", "");
while (read($fh, $buffer, 256, length($buffer))) {
    $string .= decode($encoding, $buffer, Encode::FB_QUIET);
    # $buffer now contains the unprocessed partial character
}

=head3 FB_WARN

I<CHECK> = Encode::FB_WARN

This is the same as C<FB_QUIET> above, except that instead of being silent on errors, it issues a warning. This is handy for when you are debugging.

=head3 FB_PERLQQ FB_HTMLCREF FB_XMLCREF

=over 2

=item perlqq mode (I<CHECK> = Encode::FB_PERLQQ)

=item HTML charref mode (I<CHECK> = Encode::FB_HTMLCREF)

=item XML charref mode (I<CHECK> = Encode::FB_XMLCREF)

=back

For encodings that are implemented by the C<Encode::XS> module, C<CHECK> C<==>
C<Encode::FB_PERLQQ> puts C<encode> and C<decode> into C<perlqq> fallback mode.

When you decode, C<\xI<HH>> is inserted for a malformed character, where
I<HH> is the hex representation of the octet that could not be decoded to utf8. When you encode, C<\x[I<HHHH>] > will be inserted, where I<HHHH> is
the Unicode code point (in any number of hex digits) of the character that cannot be found in the character repertoire of the encoding.

The HTML/XML character reference modes are about the same. In place of 
C<x{I<HHHH}>, HTML uses C<&#I<NNN>;> where I<NNN> is a decimal number, and
XML uses C<&#xI<HHHH>;> where I<HHHH> is the hexadecimal number.

In C<Encode> 2.10 or later, C<LEAVE_SRC> is also implied.

=head3 The bitmask

These modes are all actually set via a bitmask. Here is how the C<FB_I<XXX>>
constants are laid out. You can import the C<FB_I<XXX>> constants via
C<use Encode qw(:fallbacks)>, and you can import the generic bitmask
constants via C<use Encode qw(:fallback_all)>.

=table

<table>
<thead>
<tr>
<th>Mode</th>
<th>Mask</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIE_ON_ERR</td>
<td>0x0001</td>
</tr>
<tr>
<td>WARN_ON_ERR</td>
<td>0x0002</td>
</tr>
<tr>
<td>RETURN_ON_ERR</td>
<td>0x0004</td>
</tr>
<tr>
<td>LEAVE_SRC</td>
<td>0x0008</td>
</tr>
<tr>
<td>PERLQQ</td>
<td>0x0100</td>
</tr>
<tr>
<td>HTMLCREF</td>
<td>0x0200</td>
</tr>
<tr>
<td>XMLCREF</td>
<td>0x0400</td>
</tr>
</tbody>
</table>
=table

=head3 LEAVE_SRC

Encode::LEAVE_SRC

If the C<Encode::LEAVE_SRC> bit is I<not> set but I<CHECK> is set, then the
source string to encode() or decode() will be overwritten in place.
If you're not interested in this, then bitwise-OR it with the bitmask.

=head2 coderef for CHECK

As of C<Encode> 2.12, C<CHECK> can also be a code reference which takes the
ordinal value of the unmapped character as an argument and returns a string
that represents the fallback character. For instance:

```perl
$ascii = encode("ascii", $utf8, sub{ sprintf "<U+%04X>", shift });
```

Acts like C<FB_PERLQQ> but U+I<XXXX> is used instead of C<x{I<XXXX}>.

=head1 Defining Encodings

To define a new encoding, use:

use Encode qw(define_encoding);
define_encoding($object, CANONICAL_NAME [, alias...]);

I<CANONICAL_NAME> will be associated with I<$object>. The object
should provide the interface described in L<Encode::Encoding>.  
If more than two arguments are provided, additional
arguments are considered aliases for I<$object>.

See L<Encode::Encoding> for details.

=head1 The UTF8 flag

Before the introduction of Unicode support in Perl, The C<eq> operator
just compared the strings represented by two scalars. Beginning with
Perl 5.8, C<eq> compares two strings with simultaneous consideration of
I<the UTF8 flag>. To explain why we made it so, I quote from page 402 of
I<Programming Perl, 3rd ed.>

=over 2

=item Goal #1:

Old byte-oriented programs should not spontaneously break on the old
byte-oriented data they used to work on.

=item Goal #2:

Old byte-oriented programs should magically start working on the new
character-oriented data when appropriate.

=item Goal #3:

Programs should run just as fast in the new character-oriented mode
as in the old byte-oriented mode.

=item Goal #4:

Perl should remain one language, rather than forking into a
byte-oriented Perl and a character-oriented Perl.

=back

When I<Programming Perl, 3rd ed.> was written, not even Perl 5.6.0 had been
born yet, many features documented in the book remained unimplemented for a
long time. Perl 5.8 corrected much of this, and the introduction of the
UTF8 flag is one of them. You can think of there being two fundamentally
different kinds of strings and string-operations in Perl: one a
byte-oriented mode for when the internal UTF8 flag is off, and the other a
character-oriented mode for when the internal UTF8 flag is on.
Here is how C<Encode> handles the UTF8 flag.

When you I<encode>, the resulting UTF8 flag is always B<off>.

When you I<decode>, the resulting UTF8 flag is B<on>--I<unless> you can unambiguously represent data. Here is what we mean by "unambiguously". After C<$utf8 = decode("foo", $octet)>,

<table>
<thead>
<tr>
<th>When $octet is...</th>
<th>The UTF8 flag in $utf8 is</th>
</tr>
</thead>
<tbody>
<tr>
<td>In ASCII only (or EBCDIC only)</td>
<td>OFF</td>
</tr>
<tr>
<td>In ISO-8859-1</td>
<td>ON</td>
</tr>
<tr>
<td>In any other Encoding</td>
<td>ON</td>
</tr>
</tbody>
</table>

As you see, there is one exception: in ASCII. That way you can assume Goal #1. And with C<Encode>, Goal #2 is assumed but you still have to be careful in the cases mentioned in the B<CAVEAT> paragraphs above.

This UTF8 flag is not visible in Perl scripts, exactly for the same reason you cannot (or rather, you I<don't have to>) see whether a scalar contains a string, an integer, or a floating-point number. But you can still peek and poke these if you will. See the next section.

=head2 Messing with Perl's Internals

The following API uses parts of Perl's internals in the current implementation. As such, they are efficient but may change in a future release.

=head3 is_utf8

is_utf8(STRING [, CHECK])

[INTERNAL] Tests whether the UTF8 flag is turned on in the I<STRING>. If I<CHECK> is true, also checks whether I<STRING> contains well-formed UTF-8. Returns true if successful, false otherwise.

As of Perl 5.8.1, L<utf8::is_utf8> also has the C<utf8::is_utf8> function.
=head3 __utf8_on

__utf8_on(STRING)

[INTERNAL] Turns the STRING’s internal UTF8 flag on. The STRING is not checked for containing only well-formed UTF-8. Do not use this unless you know with absolute certainty that the STRING holds only well-formed UTF-8. Returns the previous state of the UTF8 flag (so please don’t treat the return value as indicating success or failure), or C<undef> if STRING is not a string.

B<NOTE>: For security reasons, this function does not work on tainted values.

=head3 __utf8_off

__utf8_off(STRING)

[INTERNAL] Turns the STRING’s internal UTF8 flag off. Do not use frivolously. Returns the previous state of the UTF8 flag, or C<undef> if STRING is not a string. Do not treat the return value as indicative of success or failure, because that isn’t what it means: it is only the previous setting.

B<NOTE>: For security reasons, this function does not work on tainted values.

=head1 UTF-8 vs. utf8 vs. UTF8

....We now view strings not as sequences of bytes, but as sequences of numbers in the range 0 .. 2**32-1 (or in the case of 64-bit computers, 0 .. 2**64-1) -- Programming Perl, 3rd ed.

That has historically been Perl's notion of UTF-8, as that is how UTF-8 was first conceived by Ken Thompson when he invented it. However, thanks to later revisions to the applicable standards, official UTF-8 is now rather stricter than that. For example, its range is much narrower (0 .. 0x10_FFFF to cover only 21 bits instead of 32 or 64 bits) and some sequences are not allowed, like those used in surrogate pairs, the 31 non-character code points 0xFD00 .. 0xFDFF, the last two code points in I<any> plane (0xI<XX>_FFE and 0xI<XX>_FFFF), all non-shortest encodings, etc.

The former default in which Perl would always use a loose interpretation of UTF-8 has now been overruled:

From: Larry Wall <larry@wall.org>
Date: December 04, 2004 11:51:58 JST
To: perl-unicode@perl.org
Subject: Re: Make Encode.pm support the real UTF-8
I've no problem with 'utf8' being perl's unrestricted utf8 encoding, but "UTF-8" is the name of the standard and should give the corresponding behaviour.

For what it's worth, that's how I've always kept them straight in my head.

Also for what it's worth, Perl 6 will mostly default to strict but make it easy to switch back to lax.

Larry

Got that? As of Perl 5.8.7, B"UTF-8" means UTF-8 in its current sense, which is conservative and strict and security-conscious, whereas B"utf8" means UTF-8 in its former sense, which was liberal and loose and lax. C<Encode> version 2.10 or later thus groks this subtle but critically important distinction between C"UTF-8" and C"utf8".

    encode("utf8", "\x{FFFF_FFFF}", 1); # okay
    encode("UTF-8", "\x{FFFF_FFFF}", 1); # croaks

In the C<Encode> module, C"UTF-8" is actually a canonical name for C"utf-8-strict". That hyphen between the C"UTF" and the C"8" is critical; without it, C<Encode> goes "liberal" and (perhaps overly-)permissive:

    find_encoding("UTF-8")->name # is 'utf-8-strict'
    find_encoding("utf-8")->name # ditto. names are case insensitive
    find_encoding("utf_8")->name # ditto. "_" are treated as ".-"
    find_encoding("UTF8")->name # is 'utf8'.

Perl's internal UTF8 flag is called "UTF8", without a hyphen. It indicates whether a string is internally encoded as "utf8", also without a hyphen.

=head1 SEE ALSO

L<Encode::Encoding>,
L<Encode::Supported>,
L<Encode::PerlIO>,
L<encoding>,
L<perlebcdic>,
L<perlfunc/open>,
L<perlunicode>, L<perluniintro>, L<perlunifaq>, L<perlunitut>
L<utf8>,
the Perl Unicode Mailing List L<http://lists.perl.org/list/perl-unicode.html>
=head1 MAINTAINER

This project was originated by the late Nick Ing-Simmons and later maintained by Dan Kogai << dankogai@cpan.org >>. See AUTHORS for a full list of people involved. For any questions, send mail to << perl-unicode@perl.org >> so that we can all share.

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=cut

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1009860379_1594194177.94/0/perl-Encode-2.51-7.el7.src.rpm-cosi-expand-archive-5nFhl5I8/Encode-2.51.tar.gz-cosi-expand-archive-P0TWm66s/Encode-2.51/Encode.pm

1.514 mime-pull 1.9.12
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* Source:

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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   Written by Adam Twiss (adam@zeus.co.uk).  March 1996

   Thanks to the following people for their input:
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   Michael Campanella (campanella@stevms.enet.dec.com)

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1.526 opensaml-saml-impl 3.3.0

1.527 jetty-security 9.2.22.v20170606

1.528 thymeleaf-extras-java8time 3.0.1
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1.529 efivar 36 12.el7

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1.541 spring-hateoas 0.24.0

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1.546 zlib 1.2.8

1.546.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/CanBeTrailTableEncoding.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/From_GB18030_Transcoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/EucEncoding.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/specific/ASCIIEncoding.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/IntHolder.java
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* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/specific/ISO8859_3Encoding.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/specific/KO8UEncoding.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/specific/BaseEUCJPEncoding.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/specific/EmacsMuleEncoding.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/Op2022jp_decoder_Transcoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/To_UTF_32LE_Transcoder.java
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* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/util/ObjHash.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-
jar/org/jcodings/transcode/EConvFlags.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1.0-12-sources-jar/org/jcodings/transcode/specific/Stateless_iso2022jp_to_eucjp_Transcoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1.0-12-sources-jar/org/jcodings/specific/EUCKRREncoding.java
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* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1.0-12-sources-jar/org/jcodings/transcode/specific/From_UTF_16LE_Transcoder.java
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* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1.0-12-sources-jar/org/jcodings/transcode/specific/Iso2022jp_kddi_encoder_Transcoder.java
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* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1.0-12-sources-jar/org/jcodings/transcode/specific/From_UTF8_MAC_Transcoder.java
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* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1.0-12-sources-jar/org/jcodings/transcode/specific/From_UTF_32BE_Transcoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1.0-12-sources-jar/org/jcodings/transcode/specific/From_UTF_32BE_Transcoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/exception/JCodingsException.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/specific/Windows_31JEncoding.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/AbstractEncoding.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/util/ArrayReader.java
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* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/To_UTF_32BE_Transcoder.java
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* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/transcode/UTF32BEEncoding.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/specific/BIG5Encoding.java
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* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/specific/UTF32BETranscoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/Iso2022jp_kddi_decoder_Transcoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/From_UTF_16BE_Transcoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/From_UTF_16_Transcoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/Iso2022jp_decoder_Transcoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/From_UTF_16_Transcoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/From_UTF_16BE_Transcoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/Iso2022jp_kddi_decoder_Transcoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/transcode/specific/Iso2022jp_decoder_Transcoder.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.89/jcodings-1-0-12-sources-jar/org/jcodings/exception/TranscoderException.java

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* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.890/jcodings-1-0-12-sources-jar/org/jcodings/unicode/FixedWidthUnicodeEncoding.java
* /opt/ws_local/PERMITS_SQL/1018362001_1591370846.890/jcodings-1-0-12-sources-jar/org/jcodings/unicode/UnicodeProperties.java
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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.

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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.

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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.

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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 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

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
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

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 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/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
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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 PBMPLUS 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 PBMPLUS/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.
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zlib.h -- interface of the 'zlib' general purpose compression library
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collector. Later contributions should instead be mentioned in
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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 Dossor provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@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.)

http_parser.c is based on src/http/ngx_http_parse.c from NGINX copyright Igor Sysoev.

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Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christian Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49
+0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (dij -at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)
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Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
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Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
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Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

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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/ml][MPL] sequences.
NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

1.601 maven-embedder 3.3.9

1.601.1 Available under license :  
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Version 1.1.1

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// ------------------------------------------------------------------

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##
## $Date: 2008-03-09 23:17:06 -0700 (Sun, 09 Mar 2008) $ $Rev: 635446 $
##
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copyright notices and license terms. Your use of those components are
subject to the terms and conditions of the following licenses.

#set ( $apacheTxt = "The Apache Software License, Version 2.0" )

#foreach ( $project in $projects )
#foreach ( $license in $project.licenses)
#if ( ! ($apacheTxt == $license.name) )
#set ( $artId = $project.artifact.artifactId)
#set ( $lf = $locator )
#set ( $url = $license.url )

## glass fish URL is now invalid, use a fixed one

```xml
#set ($url = 'https://glassfish.java.net/public/CDDLv1.0.html')
```  #end

```java
#set ($licFile = 'lib/' + $artId + '.license')
#set ($downloaded = $lf.getResourceAsFile($url, "licenses/${licFile}") )
#end
```

```xml
$project.name #if ($project.url)($project.url)#end $project.artifact
License: $license.name #if ($url) $url ($licFile)#end
```

```
</?xml version="1.0" encoding="UTF-8"?>
```

```
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"AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY
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specific language governing permissions and limitations
under the License.
-->```

```
<project>
  <modelVersion>4.0.0</modelVersion>

  <!--
  While <contributors> are inherited, they are not aggregated, only the child elements are used.
  -->

  <parent>
    <groupId>org.apache.maven.its.mng3843</groupId>
    <artifactId>parent-1</artifactId>
    <version>0.1</version>
  </parent>
```

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-->

<project>
  <modelVersion>4.0.0</modelVersion>

  <groupId>org.apache.maven.its.mng3843</groupId>
  <artifactId>parent-1</artifactId>
  <version>0.1</version>
  <packaging>pom</packaging>

  <licenses>
    <license>
<name>parent-license</name>
=url>http://parent.url/license</url>
<distribution>repo</distribution>
</license>
</licenses>
</project>

V
W
XYZ[
V\
]\n^_
`

a bcdedefghij
Vkl

VmnopqrstuvwxyzLjava/lang/String;emailurlorganizationorganizationUrlrolesLjava/util/List;
Signature$Ljava/util/List$Ljava/lang/String;>:timezone
properties$Ljava/util/Properties;<init>()Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;Ljava/lang<String>
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<!--
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-->

<project>
  <modelVersion>4.0.0</modelVersion>

  <!--
  While <licenses> are inherited, they are not aggregated, only the child licenses are used.
  -->

  <parent>
    <groupId>org.apache.maven.its.mng3843</groupId>
    <artifactId>parent-1</artifactId>
    <version>0.1</version>
  </parent>

  <groupId>org.apache.maven.its.mng3843.child</groupId>
  <artifactId>child-2</artifactId>
  <version>0.2</version>
  <packaging>jar</packaging>

  <licenses>
    <license>
      <name>child-license</name>
      <url>http://child.url/license</url>
      <distribution>repo</distribution>
    </license>
  </licenses>

</project>

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    </contributor>
  </contributors>

</project>
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1.602 plugin-classloader 6.5.4

1.603 vim 7.4.629-6.el7

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- 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.

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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).

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:
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
Finsterrueihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.
the version number 2.1.]

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1.604 polkit 0.112 22.el7_7.1

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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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@subheading Preamble

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@subheading END OF TERMS AND CONDITIONS

@page
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Version 3, 29 June 2007

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

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Organisations
- Holders of <a href="https://www.cryptoworkshop.com">Crypto Workshop Support Contracts</a>. Without the consulting time left over from support contracts being contributed back to working on the Bouncy Castle APIs, progress would be impossible. You know who you are!
- <a href="http://www.grierforensics.com/">Grier Forensics</a>, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.
- TU-Darmstadt, Computer Science Department, RBG, for the initial lightweight client side TLS implementation, which is based on MicroTLS and for help with qTESLA implementation. MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof. Max Muehlhaeuser. qTESLA assistance was provided by Nina Bindel and Yinhua Xu.
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- Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at <a href="http://voxeolabs.com">http://voxeolabs.com</a>.
<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>
<li>Additional CertPath testing and validation data from the CertPath testing tool developed by <a href="https://www.cryptosource.de">cryptosource GmbH</a> and <a href="https://www.mtg.de">media Transfer AG</a> both located in Darmstadt, Germany.</li>
<li><a href="https://www.microfocus.com/">Micro Focus</a> - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.</li>
</ul>

<p>People</p>
<ul>
<li>Tito Pena &lt;Fortunato.Pena&#064;AdNovum.CH&gt; - initial RC5 implementation</li>
<li>Michael Lee &lt;yfl&#064;mira.net&gt; - initial RC6 implementation, MD2 implementation</li>
<li>Nuno Santos &lt;nsantos&#064;student.dei.uc.pt&gt; - finding toString bug in certificate object.</li>
<li>Brett Sealey &lt;bretts&#064;mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).</li>
<li>Victor A. Salaman &lt;salaman&#064;teknos.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.</li>
<li>Eran Librach &lt;eranl&#064;valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).</li>
<li>Jonathan Knudsen &lt;jonathan&#064;LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
<li>Markus Niedermann &lt;markus.niedermann&#064;softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
<li>Mike Benham &lt;moxie&#064;thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.</li>
<li>Soren Hilmer &lt;hilmer&#064;mail.tele.dk&gt; - initial implementation of netscape certificate request classes.</li>
<li>Uwe Guenther &lt;uwe&#064;cscc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.</li>
<li>Markus Bradtke &lt;mab&#064;informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.</li>
<li>Waclaw Sierek &lt;waclaw.sierrek&#064;tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.</li>
<li>Ly-Na Phu &lt;lyna.phu&#064;init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.</li>
<li>Stefan K&#ouml;sell &lt;sk13&#064;mail.inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see</li>
</ul>
Carmen Bastiaans &lt;cbastiaa#064;microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.

Tomas Gustavsson &lt;tomasmg#064;primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes.

getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.

Carmen Bastiaans &lt;cbastiaa#064;microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.

Tomas Gustavsson &lt;tomasmg#064;primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes.

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getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.
<li>Jason Novotny &lt;jdnovotny@lbl.gov&gt; - initial work on the openSSL PEM processing.</li>
<li>Joel Hockey &lt;joel.hockey@qsipayments.com&gt; - initial work on the openSSL PEM processing.</li>
<li>John Steenbruggen &lt;JohnS@geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>
<li>Justin Chapweske &lt;justin@chapweske.com&gt; - ordering patch for Tiger message digest.</li>
<li>John Serock &lt;jserock@#64;hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.</li>
<li>Sascha Weinreuter &lt;Sascha.Weinreuter@#64;cit.de&gt; - fixed SMIME saveChanges() bug.</li>
<li>Andre Wehnert &lt;aw5@#64;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>
<li>Luigi Lo Iacono &lt;lo_iacono@#64;nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.</li>
<li>Tim Sakach &lt;tsakach@#64;certivo.net&gt; - SMIME v2 compatibility patches.</li>
<li>Marcus Povey &lt;mpovey@#64;brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.</li>
<li>Sebastian Clau@szlig; &lt;sc2@#64;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.</li>
<li>Nicolas Bielza &lt;nicolas.bielza@#64;alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.</li>
<li>Casey Marshall &lt;rsdio@#64;metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.</li>
<li>Rick Zeldes &lt;rick.zeldes@#64;eds.com&gt; - initial code for CMS/SMIME CompressedData.</li>
<li>Jarek Gawor &lt;gawor@#64;mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.</li>
<li>Brett Neumeier &lt;random@#64;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.</li>
<li>Graham Coles &lt;graham.coles@#64;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>
<li>J@uml;rn von Kattchee &lt;J.Kattchee@#64;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.</li>
<li>Matteo Artuso &lt;matartuso@#64;libero.it&gt; - picking up the possible overread in ASN1InputStream.</li>
<li>Julian Morrison &lt;julian@#64;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>
<li>Elmar Sonnenschein &lt;eso@#64;esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>
<li>Bryan Lovquist &lt;blkl@#64;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>
<li>Artem Portnoy &lt;Artem_Portnoy@#64;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
<li>Michael H@uml;usler &lt;haeusler@#64;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>
<li>Johan Seland &lt;johans@#64;netfonds.no&gt; - general toString for BigInteger class.</li>
<li>Johannes Nicoli &lt;johannes.nicoli@#64;ovosec.com&gt; - further enhancements to OCSP response generator, fix to CertificateID issuer.</li>
<li>Marc Doberva &lt;marc.doberva@#64;ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>
<li>Jan Dvorak &lt;jan.dvorak@#64;mathan.cz&gt; - initial implementation of the light weight Null block cipher.</li>
<li>Joe Cohen &lt;jcohen@#64;forumsys.com&gt; - converting the ArrayOutOfBoundsException in
DERInputStream into what it should have been.

Chris Long &lt;lclong@ece.cmu.edu&gt; - adding public key decoding to PEMReader.

Hes Siemelink &lt;hes@064izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.

Stefan Puiu &lt;stefanpuiuro@yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.

Kaiser Yang &lt;kaiyang@yahoo.com&gt; - Finding BigInteger loop problem in prime generation.

Jiri Urbanec &lt;jiri.urbanec@064logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().

Justin Kolb &lt;jkolb@064printx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser &lt;ralfhauser@064gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

Michal Dvorak &lt;nEMdvorak@064kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.

Klaus Greve Fiorentini &lt;klaus@064cpqd.com.br&gt; - array fix in PGPublicKKeyEncSessionPacket.

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Brien Oberstein &lt;brien.oberstein@transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtility.

Ian Haywood &lt;ian@064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.

Jonathan Edwards &lt;s34gull@064mac.com&gt; - initial support for reading multiple rings from a PGP key file.

Andrew Thornton &lt;andrew@064caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.

Gregor Leander &lt;gl@064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.

Antoon Bosselaers &lt;Antoon.Bosselaers@esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.

Peter Sylvester &lt;Peter.Sylvester@064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.

Doug &lt;ummmmm@064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.

Francois Staes &lt;fstaes@064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralizedString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.

W.R. Dittmer &lt;wdittmer@064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.

Perez Paz Luis Alberto &lt;laperez@064banxico.org.mx&gt; - patch to use of BitString in X.500 name.

James Wright &lt;James_Wright@064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.

Jim Ford &lt;jim@064muirford.com&gt; - patch to PGP SecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.

Michael Hausler &lt;haeusler@064ponton-consulting.de&gt; - extra aliases for provider.

Sai Pullabhotla &lt;psai@064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.
Joseph Miller &lt;joseph#064digiweb.net.nz&gt; - addition of ZeroBytePadding.</li>
<li>Lars &lt;xyz#064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Jeroen van Vianen &lt;jeroen#064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>
<li>Jun Sun &lt;JSun#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
<li>Petr Dukem &lt;pdukem#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
<li>Filipe Silva &lt;filipe.silva#064wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.</li>
<li>Alpesh Parmar &lt;alps#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
<li>Jay Gengelbach &lt;jgengelbach#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PKG signatureGenerator, initial cut for indefinite length output.</li>
<li>Doug &lt;doug#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
<li>Matthew Mundy &lt;mmundy1#064umbc.edu&gt; - infinite loop prevention patch to PKCSS2ParametersGenerator.</li>
<li>Tom Cargill &lt;tacargill#064profcon.com&gt; - spelling patch in provider.</li>
<li>Freitenstrom Christian &lt;c.freitenstrom#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>
<li>Zanotti Mirko &lt;zanotti#064cad.it&gt; - patch to ordered equality test for X509Name.</li>
<li>Nicola Scendoni &lt;nscendoni#064babelps.it&gt; - patch to add sort to CertPath validation.</li>
<li>Ville Skytt&auml;&lt;ville.skytta#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>
<li>Bruce Gordon &lt;bruce.gordon#064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>
<li>Miles Whiteley &lt;Miles.Whiteley#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.</li>
<li>Albert Moliner &lt;amoliner#064evintia.com&gt; - initial TSP implementation.</li>
<li>Carlos Lozano &lt;carlos#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
<li>Javier Delgadillo &lt;javi#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
<li>Joni Hahkala &lt;joni.hahkala#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org"&gt;EGEE project&lt;/a&gt; for making the work available.</li>
<li>Rolf Schillinger &lt;rolf#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>
<li>Sergey Bahtin &lt;Sergey.Bahtin#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>
<li>Frack Leroy &lt;Frack.Leroy#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>
<li>Atsuhiko Yamakata &lt;ymmk#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>
<li>Nickolay Bolshakov &lt;tyrex#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>
<li>Soren Hilmer &lt;soren.hilmer#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>
<li>Steve Mitchell &lt;mitchell#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow
BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.<li>
</li><li>Dirk Eisner &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 78164-4 padding.</li><li>Julien Pasquier &lt;julienpasquier@free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li><li>Mataru &lt;matatuso@4libero.it&gt; - sequence path to ASN1Dump.</li><li>Andrew Paterson &lt;andrew.paterson@064burnsees.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.</li><li>Vladimir Molotkov &lt;vladimir.n.molotkov@064intel.com&gt; - extensive provider exception handling compliance testing.</li><li>Florian Kollan &lt;adlocflo@064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li><li>Pavel Vassiliev &lt;paulvas@064gmail.com&gt; - Initial GOST28147Mac implementation.</li><li>Tom Pesman &lt;tom@064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li><li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@064gmail.com&gt; - fix to PKIXParameters getting issue with OpenSSL PEM based certificate requests.</li><li>Arndt Hasch &lt;Arndt.Hasch@maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li><li>Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirpool.</li><li>David M. Lee &lt;dmlee@064Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li><li>Mike Dillon &lt;md5@embodies.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li><li>Tu-vi cung &lt;tvung@064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.</li><li>Chris Schultz &lt;cschultz@064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.</li><li>David M. Lee &lt;dmlee@064Crossroads.com&gt; - implementation assistance with streaming CMS classes.</li><li>Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li><li>Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li><li>Larry Bugbee &lt;bugbee@064mac.com&gt; - initial ECNR implementation.</li><li>Remi Blancher &lt;Remi.Blancher@064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li><li>Brian ORourke &lt;brianorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li><li>Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li><li>David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.</li><li>Kishimoto Kazuhiko &lt;kazu-k@064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li><li>Lawrence Tan &lt;1wrnctan@064gmail.com&gt; - Large field OID sample test data. Missing key types in
Carlos Valiente &lt;superdupont&#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc&#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

J&amp;ouml;r&uuml;rg Eichhorn &lt;j.eichhorn&#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt; widened&amp;#064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos&amp;#064tradise.com&gt; - patch for &amp;lt;ctrl&amp;gt;&amp;lt;m&amp;gt; only handling in CRLFOutputStream.

John Alfred Prufrock &lt;j.a.prufrock&amp;#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;sneusatz&amp;#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice&amp;#064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold&amp;#064gmx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles&amp;#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;Pasi.Eronen&amp;#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova&amp;#064gmail.com&gt; - support for tags &gt; 30 in ASN.1 parsing.

Armin H&amp;auml;berling &lt;arminha&amp;#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;mschilder&amp;#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vourch &lt;xavier&amp;#064brittanysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews&amp;#064cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha&amp;#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC,
and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis &lt;info@frankcornelis.be&gt; - addition of crlAccessMethod in
X509ObjectIdentifiers.</li>
<li>Rui Joaquim &lt;ruijoaquim@064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey &lt;DStacey@064allantgroup.com&gt; - addition of trust packet checking on revocation
signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers &lt;list@064nmtm.nl&gt; - better exception handling in CMS enveloping, "just in time"
modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies &lt;juliusdavies@064gmail.com&gt; - additional modes and algorithm support in
PEMReader</li>
<li>Matthias &lt;g@064rtnr.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga K{@uml:uml:uml:uml:uml:uml}a@olga.kaelther@064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC
curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo &lt;germano.rizzo@064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and
HC-256, optimisations for Salsa20.</li>
<li>N@uml:acute:ria Mar@uml:acute;ute@uml:acute; &lt;numaa@064hotmail.com&gt; - patch for alternate data type recognition in
CMSSignedDataParser.</li>
<li>Janis Schuller &lt;js@064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet &lt;Mike@064samblanet.com&gt; - patches towards improved Sun/default provider
support in CMS.</li>
<li>Mike StJohns &lt;mstjohns@064comcast.net&gt; - patches for supporting empty subject in X.509 certificate
generation, noneWithECDSA, updates to KeyPurposeId.</li>
<li>Ramon Keller &lt;ramon.keller@064gmx.ch&gt; - patch to deal with null revocations return from other CRL
in X509V2CRLGenerator.</li>
<li>Mark Nelson &lt;mark@064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX
processing.</li>
<li>Eugene Golushkov &lt;eugene_gff@064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>
<li>Julien Pasquier &lt;julienpasquier@064free.fr&gt; - additional classes for supporting signature policy and
signer certificates in the ASN.1 esf and ess libraries.</li>
<li>Peter Knopp &lt;tpknopp@064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>
<li>Jakub Gwozd &lt;jgwozdziu@064rpg.pl&gt; - addition of getTsA() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski &lt;bmalkow@064tigase.org&gt; - initial implementation of VMPC cipher,
VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi &lt;tal.yacobi@064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@064gmail.com&gt; - 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 &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding
property check.</li>
<li>J Ross Nicoll &lt;jrn@jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1
library.</li>
<li>Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to construtor for CRMF CertSequence.</li>
<li>Gabriele Contini &lt;gcontini@064hotpop.com&gt; - identified a bug in ASN.1 library with handling of
unterminated NDEF's.</li>
<li>Roelof Naude &lt;roelof.naude@064epiuse.com&gt; - patch for TLS client to send empty client certs in
response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck &lt;peck@064signature.at&gt; - identified problem with DERApplicationSpecific and high tag
numbers in ASN.1 library.
<li>Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre &lt;ale@064FreeBSD.org&gt; - 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 &lt;michael@064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse valide().</li>
<li>Jon Larrañaga &lt;ala@064s21sec.com&gt; - fix to default partial packet generation in BCPEOutputStream.</li>
<li>Bob Kerns &lt;bob.kerns@064positscience.com&gt; - fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - backend 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;rui@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;tobbes79@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bourneycastle_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;cagdascirit@064gmail.com&gt; - subjectAlternativeName fix for x.509CertStoreSelector.</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 OAPEncoding.</li>
<li>Lothar Kimmeringer &lt;job@064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME APL.</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;etromani@064sogei.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@064gm.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 Aramanov &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;mike@064tt-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.
Markus Kilångs &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darionis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith@064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio@064gmail.com&gt; fix for PEM password encryption of private keys.

Alex Birkett &lt;alex@064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].

Wayne Grant &lt;waynedgrant@064gmail.com&gt; additional OIDs for PCKS10 and certificate generation support.

Frank Cornelis &lt;frank.corvelis@064frankcornelis.be&gt; additional support classes for CAdES, enhancements to OCSP classes.

Jan Dittberner &lt;jan@064dittberner.info&gt; addHeader patch for SMIME generator.

Bob McGowan &lt;boab.mcgoo@064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.

Ivo Matheis &lt;ivo.matheis@064seeburger.de&gt; fix to padding verification in ISO-9796-1.

Marco Sandrini &lt;nisse@064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.

Alf Malf &lt;alf.malf@064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.

Alfonso Massa &lt;alfonso.massa@064insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo@064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.

Arnis Tartu &lt;arnis@064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.

Janusz Sikociski &lt;j.sikocinski@064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.

Juri Hudolejev &lt;j.hudolejev@064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.

Liane Velten &lt;liane.velten@064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.

Shawn Willden &lt;swillden@064google.com&gt; additional functionality to PGPKeyRing.

Atanas Krachev &lt;akrachev@064gmail.com&gt; added support for revocation signatures in OpenPGP.

Mickael Laiking &lt;mickael.laiking@064keynecis.com&gt; initial cut of EAC classes.

Tim Buktu &lt;tbuktu@064hotmail.com&gt; initial implementation of NTRU signing and encryption.

Bernd &lt;bernd@064gmail.com&gt; fix for open of PGP literal data stream with UTF-8 naming.

Steing Inge Morisbak &lt;stein.inge.morisbak@064BEKK.no&gt; Test code for lower case Hex data in PEM headers.

Andreas Schmid &lt;andreas.schmid@064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.

Phil Steitz &lt;phil.steitz@064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.

Ignat Korchagin &lt;ignat.korchagin@064gmail.com&gt; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.

Petar Petrov &lt;p.petar@064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr@064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implemements of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;andy.neilson@064quest.com&gt; a further patches to deal with multiple providers and PEMReader.
Ted Shaw &lt;xiao.xj#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Eleriseth &lt;Eleriseth#064WPECGLtybVi8RI6Y7VzL2Lvd2EUVW9v3yNV3WROG8.fms#064&gt; speed up for SIC/CTR mode. Provider compatibility 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 AED.</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#064gahoo.com&gt; Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom &lt;bc#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Samuel Lidéacutewn 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 Memorable 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/OpenBSDCrypt, 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;fatfreddy#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 PGPPrivateKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>
<li>Eric Müuemllller &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.
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 JceCMSContextEncryptorBuilder.</li>
<li>AxelVDB &lt;axel-vdb&#064#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&#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
<li>Andreas Reiter &lt;andreas.reiter&#064#064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
<li>Kieran Miller &lt;kieran.miller&#064#064g.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
<li>Oliver Ehli&lt;ehli&#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
<li>Robert Bushman &lt;bouncycastle&#064traxel.com&gt; Clean up of DirectKeySignature example.</li>
<li>Maurice Aarts &lt;aarts&#064#064risecure.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&#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
<li>Marco Schulze&lt;marco&#064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
<li>Martin Schaefer&lt;https://github.com/martinschaefer&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;tosias.wich&#064#064ccsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
<li>Hauke Mehrtens&lt;hauke&#064#064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.</li>
<li>Daniel Zimmerman&lt;dmz&#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
<li>Jens Kapitzka&lt;tkapitzka&#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
<li>Johan Eklund&lt;johan&#064#064primekey.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&#064#064riseup.net&gt; Contributions to BCrypt/OpenBSD/Crypt, original version of Blake2Digest.</li>
<li>Derek Atkins &lt;derek&#064#064htfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
<li>Peter Jr Halicky &lt;peto&#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
<li>lartiguePierre&lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>
<li>Thomas Belot&lt;thomas.belot+BC&#064#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.

Björn Kautler [https://github.com/Vampire] - Refinements to cert path validation (authority key addition, certificate order preservation).


Michael &lt;MSKnete@web.de&gt; - Initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

Tobias Wagner &lt;tobias.wagner@064n-design.de&gt; - Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro [https://github.com/sgiro] - 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.

bschuette [https://github.com/bschuette] - Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

Leonard Dallot [https://github.com/dallotTazTag] - Fix to S2K usage of none on changing passwords on keys without passwords originally.

Jan Willem Janssen &lt;j.w.janssen@bouncycastle.org&gt; - Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; - Fixes to toString() in x509.CertificatePolicies.

Kai Kramer &lt;kai.kramer@064gmail.com&gt; - Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles [benoit.charles@opentrust.com] - Fix for IES data length check on decryption.

Niko [nfink95@064gmail.com] - Fix to cast issue in getOutputSize() for ECIES.


Matthias Edelhoff &lt;Matthias.Edelhoff@cryptovision.com&gt; - BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Lukasz Deputat [lukasz.deputat@064gmail.com] - Fixed bugs in TsUtils read methods [#BJA-592].

Justin Ludwig [https://github.com/justinludwig] - Iterator fix for PGPOr factories to handle stream packets at start of iterated data.

André aceute - Berenguel [https://github.com/aberenguel] - Fix to include ECNamedCurveSpec in ECAlgorithmParameterSpi.

Slawomir Jaroszewski [https://github.com/slaweekjaroszewski] - Patch to make cipher/hash/signature name methods in PGP internal API public.


William Glanton [wglanton77@064gmail.com] - Fixed bug in Poly1305 [#BJA-620].

jdvorak001 [https://github.com/jdvorak001] - Speed improvements for ASN.1 ObjectIdentifier cache.

Joseph Naegle [jnaegle@064grierforensics.com] - Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project Wycheproof) [https://github.com/google/wycheproof] - Defect analysis and additional test cases for the provider.

Gorka Irazoqui [girazoki@wpi.edu] - from Intel Security Center of Excellence [https://security-center.intel.com] - 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.
Joerg Senekowitsch &lt;joerg.senekowitsch@064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.

Alexandr Krivoshta &lt;wipe@064ya.ru&gt; N4 calculation fix to GOFB mode.

Artem Storozhuk &lt;storajs72@064gmail.com&gt; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu@064samsung.com&gt; Constructor patches to CMC PKIData.

Evangelos Karatsiolis &lt;ekaratsiolis@064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.

mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.


Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.

didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.

Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.

Artem Storozhuk &lt;storajs72@064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser &lt;andreas.glaser@064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.

jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.

Scott Woodward &lt;scott#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.

chris mccown &lt;0xchrismccown@064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).

ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.

Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().

Armin Lunkeit, Michael Tautenhahn &lt;.&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.

Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.

Adam Vartanian &lt;https://github.com/flooey&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd &lt;https://github.com/ekki&gt; Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.

Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with
PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

- Nick of Nexxr &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.

- catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

- gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.

- grieu &lt;http://grieu#064gmail.com&gt;&lt; identified and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.

- MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

- Andreas Gadermaier &lt;http://up.gadermaier#064gmail.com&gt; initial version of Argon2 PBKDF algorithm.

- 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.

- Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.


- Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.

- Sarah-MdV &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournaledSecureRandom, initial implementation of JournaledAlgorithm.


- Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.


- Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.

- Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.

- Moses Palm&amp;eacute;r, TrueSec &lt;Henrik.Palmr#064truesec.se&gt; Additional improvements to constant time comparisons.

- Ren&amp;eacute; Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.

- THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.

- Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.

- gaellalire &lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.

- im-scooter &lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.

- Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.

- dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.

- Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweaks to inheritance in JceKeyAgreeRecipient.

- Ugochukwu Mmaduekw &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.

- Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.

- Aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.

- Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.

- vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.

- Tobias Ospelt &lt;tobias#064pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.
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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, 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.

<table>
<thead>
<tr>
<th>Release</th>
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Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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   (including a physical distribution medium), accompanied by the
   Corresponding Source fixed on a durable physical medium
   customarily used for software interchange.

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
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   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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From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi.  I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0.  Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne.'' - Chaucer
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From mikel@ora.com Tue Aug  1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1) id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

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1.629 jackson 2.9.1
1.629.1 Available under license :

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* /opt/ws_local/PERMITS_SQL/1071987818_1594967599.64/0/netty-codec-http-4-1-30-final-sources-3-
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Protocol Buffers for Go with Gadgets

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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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1.635 python-decorator 3.4.0 3.el7

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1.650 libdrm 2.4.83-2.el7

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1.655 msg-simple 1.1

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.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:

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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
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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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- analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.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
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1.660 popt 1.13 16.el7

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1.670 opensaml-profile-api 3.3.0

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/* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/CompileTimeConstant.java */
/* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/concurrent/LazyInit.java */
/* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/RequiredModifiers.java */
/* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/IncompatibleModifiers.java */
/* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/SuppressPackageLocation.java */
/* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/Var.java */
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/* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/RequiredModifiers.java */
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/* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-jar/com/google/errorprone/annotations/IncompatibleModifiers.java */

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1.673 xorg-x11-fonts 7.5 9.el7

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[role="xpack"]
[testenv="basic"]
[[update-license]]

=== Update license API
++++
<titleabbrev>Update license</titleabbrev>
++++

Updates the license for your {es} cluster.

[[update-license-api-request]]

==== {api-request-title}

`PUT _license`

`POST _license`

[[update-license-api-prereqs]]

==== {api-prereq-title}

If {es} {security-features} are enabled, you need `manage` cluster privileges to install the license.
If `security-features` are enabled and you are installing a gold or higher license, you must enable TLS on the transport networking layer before you install the license. See <<configuring-tls>>.

You can update your license at runtime without shutting down your nodes. License updates take effect immediately. If the license you are installing does not support all of the features that were available with your previous license, however, you are notified in the response. You must then re-submit the API request with the `acknowledge` parameter set to `true`.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

`acknowledge`:
(Optional, boolean)
Specifies whether you acknowledge the license changes. The default value is `false`.

`licenses`:
(Required, array)
A sequence of one or more JSON documents containing the license information.

The following example updates to a basic license:

```console
PUT _license
{
  "licenses": [
    
    {
      "uid": "893361dc-9749-4997-93cb-802e3d7fa4xx",
      "type": "basic",
      "issue_date_in_millis": 1411948800000,
      "expiry_date_in_millis": 1914278399999,
      "max_nodes": 1,
      "issued_to": "issuedTo",
```
NOTE: These values are invalid; you must substitute the appropriate content from your license file.

You can also install your license file using a `curl` command. Be sure to add `@` before the license file path to instruct curl to treat it as an input file.

```bash
curl -XPUT -u <user> 'http://<host>:<port>/_license' -H "Content-Type: application/json" -d @license.json
```

On Windows, use the following command:

```bash
Invoke-WebRequest -uri http://<host>:<port>/_license -Credential elastic -Method Put -ContentType "application/json" -InFile .\license.json
```

In these examples,

* `"<user>` is a user ID with the appropriate authority.
* `"<host>` is the hostname of any node in the {es} cluster (`localhost` if executing locally)
* `"<port>` is the http port (defaults to `9200`)
* `"license.json` is the license JSON file

NOTE: If your {es} node has SSL enabled on the HTTP interface, you must start your URL with `https://`

If you previously had a license with more features than the basic license, you receive the following response:

```json
{
    "acknowledged": false,
    "license_status": "valid",
    "acknowledge": {
```
This license update requires acknowledgement. To acknowledge the license, please read the following messages and update the license again, this time with the "acknowledge=true" parameter:

**watcher**: [
  "Watcher will be disabled"
],

**logstash**: [
  "Logstash will no longer poll for centrally-managed pipelines"
],

**security**: [
  "The following X-Pack security functionality will be disabled: ..."]
}

To complete the update, you must re-submit the API request and set the 'acknowledge' parameter to 'true'. For example:

```console
PUT _license?acknowledge=true
{}
/licenses: [
  {
    "uid":"893361dc-9749-4997-93cb-802e3d7fa4xx",
    "type":"basic",
    "issue_date_in_millis":1411948800000,
    "expiry_date_in_millis":1914278399999,
    "max_nodes":1,
    "issued_to":"issuedTo",
    "issuer":"issuer",
    "signature":"xx"
  }
]
```

Alternatively:

```sh
curl -XPUT -u elastic 'http://<host>:<port>/_license?acknowledge=true' -H "Content-Type: application/json" -d @license.json
```

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OSXAdapter

Version: 2.0

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2sIPlU97OVEU9kulm+E+jgjVW3LwGheOXSUOd1B8Mpo=", "start_date_in_millis": -1 }
  - match: { license_status: "valid" }
  - do:
    license.get: {}

## a v5 (enterprise) license object has 12 attributes
- length: { license: 12 }

## In 8.0, the enterprise license is always reports truthfully
- match: { license.type: "enterprise" }
- match: { license.max_resource_units: 50 }
- match: { license.max_nodes: null }

## Check the xpack info API as well
- do:
  xpack.info: {}
  - match: { license.type: "enterprise" }
  - match: { license.mode: "enterprise" }

## Check the opt-in v5 license type
- do:
  warnings:
    - "Including [accept_enterprise] in get license requests is deprecated. The parameter will be removed in the next major version"
  license.get:
    accept_enterprise: true

## a v5 license object has 12 attributes
- length: { license: 12 }

## Always returns real type
- match: { license.type: "enterprise" }

## Check the xpack info API as well
- do:
  - warnings:
    - "Including [accept_enterprise] in get license requests is deprecated. The parameter will be removed in the next major version"
  - xpack.info:
    - accept_enterprise: true
  - match: { license.type: "enterprise" }
  - match: { license.mode: "enterprise" }

## "false" is rejected
- do:
  - catch: bad_request
  - warnings:
    - "Including [accept_enterprise] in get license requests is deprecated. The parameter will be removed in the next major version"
  - license.get:
    - accept_enterprise: false

- do:
  - catch: bad_request
  - warnings:
    - "Including [accept_enterprise] in get license requests is deprecated. The parameter will be removed in the next major version"
  - xpack.info:
    - accept_enterprise: false

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Apache Extras for Apache log4j.

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* https://github.com/eclipse-ee4j/javamail

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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`
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JUnRAR (https://github.com/edmund-wagner/junrar/)

JUnRAR is based on the UnRAR tool, and covered by the same license
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[[]] [[java-rest-high-put-license]]
=== Update License

[[]] [[java-rest-high-put-license-execution]]
==== Execution

The license can be added or updated using the `putLicense()` method:

["source","java",subs="attributes,callouts,macros"]
-----------------------------------------------
include-tagged::{doc-tests}/LicensingDocumentationIT.java[put-license-execute]
-----------------------------------------------
<1> Set the categories of information to retrieve. The default is to return no information which is useful for checking if {xpack} is installed but not much else.
<2> A JSON document containing the license information.

[[]] [[java-rest-high-put-license-response]]
==== Response

The returned `PutLicenseResponse` contains the `LicensesStatus`, `acknowledged` flag and possible acknowledge messages. The acknowledge messages are present if you previously had a license with more features than one you are trying to update and you didn't set the `acknowledge` flag to `true`. In this case you need to display the messages to the end user and if they agree, resubmit the license with the `acknowledge` flag set to `true`. Please note that the request will still return a 200 return code even if requires an acknowledgement. So, it is necessary to check the `acknowledged` flag.

["source","java",subs="attributes,callouts,macros"]
-----------------------------------------------
include-tagged::{doc-tests}/LicensingDocumentationIT.java[put-license-response]
-----------------------------------------------
<1> The status of the license
<2> Make sure that the license is valid.
<3> Check the acknowledge flag. It should be true if license is acknowledged.
<4> Otherwise we can see the acknowledge messages in `acknowledgeHeader()`
<5> and check component-specific messages in `acknowledgeMessages()`.

[[java-rest-high-put-license-async]]
==== Asynchronous Execution

This request can be executed asynchronously:

["source","java",subs="attributes,callouts,macros"]
--------------------------------------------------
include-tagged:::[doc-tests]/LicensingDocumentationIT.java[put-license-execute-async]
--------------------------------------------------
<1> The `PutLicenseRequest` to execute and the `ActionListener` to use when
the execution completes

The asynchronous method does not block and returns immediately. Once it is
completed the `ActionListener` is called back using the `onResponse` method
if the execution successfully completed or using the `onFailure` method if
it failed.

A typical listener for `PutLicenseResponse` looks like:

["source","java",subs="attributes,callouts,macros"]
--------------------------------------------------
include-tagged:::[doc-tests]/LicensingDocumentationIT.java[put-license-execute-listener]
--------------------------------------------------
<1> Called when the execution is successfully completed. The response is
provided as an argument
<2> Called in case of failure. The raised exception is provided as an argument
ecs-logging-java

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* https://github.com/eclipse-ee4j/jaf

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This project leverages the following third party content.

JUnit (4.12)

* License: Eclipse Public License

This API enables you to delete licensing information.

```
DELETE /_license
```

When your license expires, {xpack} operates in a degraded mode. For more information, see [License expiration].

You must have `manage` cluster privileges to use this API.

The following example queries the info API:
When the license is successfully deleted, the API returns the following response:

```javascript
{
  "acknowledged": true
}
```

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    acknowledge: true
    body: |
      {"licenses": [{"uid": "894371dc-9t49-4997-93cb-802e3r7faa8","type": "trial","issue_date_in_millis": 1411948800000,"expiry_date_in_millis": 1916956799999,"max_nodes": 1,"issued_to": "issuedTo","issuer": "issuer","signature": "AAAAAgAAAA0FWh0T9njItjQ2qammAAABmC9ZN0hjZDBGYNyVRxpCOW5Bh3FjZDAxOWpSbTVoMVZwUrxVxk1PSmxaZXzdW5IMlhITTHoN1N2MXMvRFk4d3JTZEx3R3RRZpU3ZnWqS9IFv0p0pTHBkwkprZWSQq9HmRNQKw1lSpLN0DlfZCSOS95MXRGN11ZlpYcVvTTFrEcT2dhZmZrDFqN3JQeGwxb0U0MXZ00dJJHSeRiZTVLOHnSDByWnpoZEpZHBEZjUrTVBrXENNSXNsWWjZlZlaODdzVnEzUjNiWktNWGM5TUhQV2plaUo4Q1J0Um4MNxU4lSpSOehQaVB2azhimkUKvQFHTeF0mQ1Q0RznJXS53MWk2K055c28zSmRnVkJljbJSQkFLV2VXumVHNZD2R3o2VE11qbVNSQ2iiOnH5bUerZlnWkZmZiWEtSU9wTTJENDvT1NCYlAcluUYKyKf2FRW9x0a66ddMbnMzSGiqCFWONTgxZ3UcXMvQxt2RUZwMFJnz2lVL2d2bDRUuzh6UG5pdENGWFReXNKNKepE9PQAABZhvzoA0trrxhUZlQbaTkTna9C5KVQ6pv8yg1PnsBZC18kXiSrgoFnbXq61IvJwfw5qmmYNiH3hRHTQ9EyaCBqakLkNXQZQ6T1RqQpEnsPmAYUkZEXkisUboOk4B4mzwC/8aAMkzrTIEBtbBog+57cSaU9y37Gkkd+i1JXQrexP+jOEU7gnXWZvE6oeeRoLrCt1fyn09k0CF8kKThrPTScjC6igZR3uvTHyee74XQ9PRAvHax73T74U0EdQZX/P1hSSQ1WkbBBD5YQ1POYjVYaoyTnWLmxeEckATJLZHpBEHST7kZWjrTSJ6ldCREJc7a8Vsj/78HXvOily"
    ]
  }
  - match: { license_status: "valid" }

- do:
  license.get: {}

## a v5 license object has 12 attributes & the Rest API always outputs in current version
- length: 12

## bwc for licenses format
- do:
  license.post:
    acknowledge: true
    body: |
      {"licenses": [{"uid": "893361dc-9749-4997-93cb-802e3d7faa8","type": "gold","issue_date_in_millis": 1411948800000,"expiry_date_in_millis": 1914278399999,"max_nodes": 1,"issued_to": "issuedTo","issuer": "issuer","signature": "AAAAAgAAAA0FWh0T9njItjQ2qammAAABmC9ZN0hjZDBGYNyVRxpCOW5Bh3FjZDAxOWpSbTVoMVZwUrxVxk1PSmxaZXzdW5IMlhITTHoN1N2MXMvRFk4d3JTZEx3R3RRZpU3ZnWqS9IFv0p0pTHBkwkprZWSQq9HmRNQKw1lSpLN0DlfZCSOS95MXRGN11ZlpYcVvTTFrEcT2dhZmZrDFqN3JQeGwxb0U0MXZ00dJJHSeRiZTVLOHnSDByWnpoZEpZHBEZjUrTVBrXENNSXNsWWjZlZlaODdzVnEzUjNiWktNWGM5TUhQV2plaUo4Q1J0Um4MNxU4lSpSOehQaVB2azhimkUKvQFHTeF0mQ1Q0RznJXS53MWk2K055c28zSmRnVkJljbJSQkFLV2VXumVHNZD2R3o2VE11qbVNSQ2iiOnH5bUerZlnWkZmZiWEtSU9wTTJENDvT1NCYlAcluUYKyKf2FRW9x0a66ddMbnMzSGiqCFWONTgxZ3UcXMvQxt2RUZwMFJnz2lVL2d2bDRUuzh6UG5pdENGWFReXNKNKepE9PQAABZhvzoA0trrxhUZlQbaTkTna9C5KVQ6pv8yg1PnsBZC18kXiSrgoFnbXq61IvJwfw5qmmYNiH3hRHTQ9EyaCBqakLkNXQZQ6T1RqQpEnsPmAYUkZEXkisUboOk4B4mzwC/8aAMkzrTIEBtbBog+57cSaU9y37Gkkd+i1JXQrexP+jOEU7gnXWZvE6oeeRoLrCt1fyn09k0CF8kKThrPTScjC6igZR3uvTHyee74XQ9PRAvHax73T74U0EdQZX/P1hSSQ1WkbBBD5YQ1POYjVYaoyTnWLmxeEckATJLZHpBEHST7kZWjrTSJ6ldCREJc7a8Vsj/78HXvOily"}]
      }
  
- match: { license_status: "valid" }
- match: { license_status: "valid" }

- do:
  license.get: {}

- length: { license: 12 }

## license version: 1.x
- do:
  license.post:
    acknowledge: true
    body: |
    
    
    ## multiple licenses version: 1.x
- do:
  license.post:
    acknowledge: true
    body: |
"licenses": [{"uid": "893361dc-9749-4997-93cb-802e3d7faa48","type": "internal","subscription_type": "none","issue_date_in_millis": 1411948800000,"feature": "shield","expiry_date_in_millis": 1440829799999,"max_nodes": 1,"issued_to": "issuedTo","issuer": "issuer","signature": "AAAAAQAAAO4Q4ky3rFyWLkFyEAABAmc9ZN0hjZDBGYnVyRXpCOW5Bh3fJDAxOWpBTVoMVZWuRzV1PSmxaXzD5MlTHoNcN12MNXmRk4d3JTE3x3RRZp0Z3l0bWJKzTvSEFva0ppTHBkWkprZWSZQ9iNmRNQkn1s1Plp0N0iDaZCS095MXRGN11ZhYpVvTFTedZnRdZFQrN3JQeGwxb0O0MXZooDfHJhSERiZTVLONhSDByWnpoZEpHfZBEZjUrTvBXRENNSXNjWWjZla0DdezVnEzUjNiWlktNWMG5MTUqVV2plaU0q4Q1OUml4MXNuLoSOPehQaVB2azhmUk9QvZhFeFIOm1Q0RnXJSG53Mwk2K055c2zSmRnVkFib2JQkFL2VXUmVHNDZ2R3o2VE1qvbVNQc2x0o0H5bUeZIWlKw8VznZlWEtsU9VFtVTDVDvT1NCYklacUYYk2FwRWx9a06dlbMbmMsZqGcQ3FWOTgza3ZUcXMvQkt2RUWzMFJnZvZlvd2bDRWuZu6U5pEDNGWFRreXNKhkE9PQAXBmVxUNm4h2E4R4TQMijahTxQj5LPQ04f1M79UxXkDIcGiH+JS5Rhx0OrTrpsFL1LEDh+PIX307Vo+PNDOXrWumYzeYbOLAO3n9yvQga+52jYmXluFtr9xhcs5SCnpMhGoijOiP2UgwisDvVcimol1+Gk8VtklPB1wPwFzfoJOnPpg/Icx3WpyfkeAUUoyWUYfifsA4ebn84iF+xwLkbgYk6HaHF25ECBtdh/Uruhcm9+eJEpooEUTcouvxkv9C+NJZ4oIck4Xv4pRgAG2s0PONH8ZNOQGhGYjGbsocXuDmlLslyXvqfMu3n7/jdsEJScjUisRsLDOu6H"}, {"uid": "893361dc-9749-4997-93cb-802e3d7faa48"}], "match": { "license_status": "valid" } }
- set: { license.uid: id }

- do: # delete an existing basic license is a no-op
  license.delete: {}

- do:
  license.get: {}
  - match: { license.uid: $id}

---

"Should install a feature type license":

**# VERSION_NO_FEATURE_TYPE license version**

- do:
  license.post:
    acknowledge: true
    body: |
    ["license":{"uid":"893361dc-9749-4997-93cb-802e37ea4a8","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":null},
    "license":{"uid":"893361dc-9749-4997-93cb-802e37ea4a8","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":null}]

  - match: { license_status:  "valid" }

  do:
  license.get: {}

- length: { license: 12 }

---

"Cannot start basic":

- do:
  catch: bad_request
  license.post:
    acknowledge: true
    body: |
    ["license":{"uid":"893361dc-9749-4997-93cb-802e37ea4a8","type":"gold","issue_date_in_millis":1411948800000,"expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":null}]
"Should fail gracefully when body content is not provided":

- do:
  catch: bad_request
  license.post:
  acknowledge: true

- match: { error.root_cause.0.reason: 'The license must be provided in the request body' }

"Current license is trial means not eligible to start trial":

- do:
  license.get_trial_status: {}

- match: { eligible_to_start_trial: false }

- do:
  license.post_start_basic:
  acknowledge: true

- match: { basic_was_started: true }

- do:
  license.get_trial_status: {}

- match: { eligible_to_start_trial: false }

- do:
  catch: forbidden
  license.post_start_trial:
  acknowledge: true
- match: { trial_was_started: false }
- match: { error_message: "Operation failed: Trial was already activated." }

---

"Trial license cannot be basic":
- do:
  catch: bad_request
  license.post_start_trial:
    type: "basic"
    acknowledge: true

---

"Can start basic license if do not already have basic":
- do:
  license.get_basic_status: {}

- match: { eligible_to_start_basic: true }

- do:
  license.post_start_basic:
    acknowledge: true

- match: { basic_was_started: true }
- match: { acknowledged: true }

- do:
  license.get_basic_status: {}

- match: { eligible_to_start_basic: false }

- do:
  catch: forbidden
  license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: true }
- match: { error_message: "Operation failed: Current license is basic." }

---

"Must acknowledge to start basic":
- do:
  license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: false }
- match: { error_message: "Operation failed: Needs acknowledgement." }

Dropwizard

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***The art of simplicity is a puzzle of complexity.***
## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
* You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).

Apache HttpComponents Core

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[[java-rest-high-delete-license]]

[[java-rest-high-delete-license-execution]]

### Delete License

The license can be deleted using the `deleteLicense()` method:

["source","java",subs="attributes,callouts,macros"]
The returned `DeleteLicenseResponse` contains the `acknowledged` flag, which returns true if the request was processed by all nodes.

This request can be executed asynchronously:

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `DeleteLicenseResponse` looks like:

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Version 2.1, February 1999

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[role="xpack"]
[testenv="basic"]
[[get-license]]

==== Request

`GET /_license`

This API enables you to retrieve licensing information.

[float]

==== Request

`GET /_license`
This API returns information about the type of license, when it was issued, and when it expires, for example.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

`local`:
(boolean) Specifies whether to retrieve local information. The default value is 'false', which means the information is retrieved from the master node.

You must have `monitor` cluster privileges to use this API. For more information, see <<security-privileges>>.

The following example provides information about a trial license:

```
GET /_license
```

```json
{
  "license": {
    "status": "active",
    "uid": "cbff45e7-c553-41f7-ae4f-9205eabd80xx",
    "type": "trial",
    "issue_date": "2018-10-20T22:05:12.332Z",
    "issue_date_in_millis": 1540073112332,
    "expiry_date": "2018-11-19T22:05:12.332Z",
    "expiry_date_in_millis": 1542665112332,
    "max_nodes": 1000,
    "max_resource_units": null,
  }
}
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"issued_to" : "test",
"issuer" : "elasticsearch",
"start_date_in_millis" : -1
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}

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// TESTRESPONSE[s/"2018-10-22T22:05:12.332Z"/$body.license.issue_date/]
// TESTRESPONSE[s/1540073112332/$body.license.issue_date_in_millis/]
// TESTRESPONSE[s/"2018-11-19T22:05:12.332Z"/$body.license.expiry_date/]
// TESTRESPONSE[s/1542665112332/$body.license.expiry_date_in_millis/]
// TESTRESPONSE[s/1000/$body.license.max_nodes/]
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[role="xpack"]
[[license-settings]]
=== License settings

You can configure this licensing setting in the `elasticsearch.yml` file.
For more information, see
{kibana-ref}/managing-licenses.html[License management].

`xpack.license.self_generated.type`:
Set to `basic` (default) to enable basic {xpack} features. +
+
--
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[[java-rest-high-get-license]]
=== Get License

[[java-rest-high-get-license-execution]]
==== Execution

The license can be added or updated using the `getLicense()` method:
The returned `GetLicenseResponse` contains the license in the JSON format.

This request can be executed asynchronously:

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `GetLicenseResponse` looks like:

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1.687 ribbon-core 2.2.5

1.688 strace 4.12-9.el7

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1.689 javapackages-tools 3.4.1 11.el7

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  jar/io/netty/handler/codec/Headers.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
  jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
  jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
  jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
  jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
  jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
  jar/io/netty/handler/codec/CodecOutputList.java

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  jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
  jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
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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.
 *
 *  * 2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is &lt;tt&gt;12 (0x0C)&lt;/tt&gt; 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 = &lt;b&gt;0&lt;/b&gt;
 *  * lengthFieldLength = &lt;b&gt;2&lt;/b&gt;
 *  * lengthAdjustment = 0
 *  * initialBytesToStrip = 0 (= do not strip header)
 */
BEFORE DECODE (14 bytes)  AFTER DECODE (14 bytes)
+--------+----------------+      +--------+----------------+
| Length | Actual Content |----->| Length | Actual Content |
| 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
+--------+----------------+      +--------+----------------+
</pre>

<h3>2 bytes length field at offset 0, strip header</h3>

Because we can get the length of the content by calling
[@link ByteBuf#readableBytes()] you might want to strip the length
field by specifying <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.

lengthFieldOffset   = 0
lengthFieldLength   = 2
lengthAdjustment    = 0
<b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)

BEFORE DECODE (14 bytes)  AFTER DECODE (12 bytes)
+--------+----------------+      +----------------+
| Length | Actual Content |----->| Actual Content |
| 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
+--------+----------------+      +----------------+
</pre>

<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
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.

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" |
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. \texttt{lengthAdjustment} is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.

\texttt{lengthFieldOffset} = 2
\texttt{lengthFieldLength} = 3
\texttt{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" |
+----------+----------+----------------+      +----------+----------+----------------+

The following message is a simple variation of the first example. An extra
header value is prepended to the message. \texttt{lengthAdjustment} is zero
again because the decoder always takes the length of the prepended data into
account during frame length calculation.

\texttt{lengthFieldOffset} = 0
\texttt{lengthFieldLength} = 3
\texttt{lengthAdjustment} = 2
\texttt{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" |
+----------+----------+----------------+      +----------+----------+----------------+

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 \texttt{lengthAdjustment} so that the decoder counts the extra
header into the frame length calculation.

\texttt{lengthFieldOffset} = 0
\texttt{lengthFieldLength} = 3
\texttt{lengthAdjustment} = 2
\texttt{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" |
+----------+----------+----------------+      +----------+----------+----------------+

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 \texttt{lengthFieldOffset} and the extra
header affects the \texttt{lengthAdjustment}. 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
*/

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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm 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>.
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jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
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jar/io/netty/handler/codec/compression/Crc32.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
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jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
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jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
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jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
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* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
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* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
jar/io/netty/handler/codecs/serialization/ObjectEncoderOutputStream.java
* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
jar/io/netty/handler/codecs/serialization/SoftReferenceMap.java
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* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-jar/io/netty/handler/codec/DefaultHeadersImpl.java
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* /opt/ws_local/PERMITS_SQL/1071961359_1594967659.49/0/netty-codec-4-1-30-final-sources-1-jar/META-INF/maven/io.netty/netty-codec/pom.xml

1.700 urfave-cli 1.20.0

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1.701 coreutils 8.22 24.el7
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/* chown-core.c -- core functions for changing ownership.
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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */

#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;

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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);
changes 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 the file. ORIG_ST must be the result of 'stat'ing the file.

The 'safely' part above means that we can't simply use chown(2),
since the file might be replaced with some other file between the time
of the preceding stat/lstat and this chown call. So here we open
the 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 chown.

Return RC_do_ordinary_chown if we can't open the file, or if the 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))
            & (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 &&
            chocpt->verbosity == V_off && ! chocpt->root_dev_ino &&
            ! chocpt->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;
}
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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A light-weight compression algorithm. It is designed for speed of
compression and decompression, rather than for the utmost in space
savings.

For getting better compression ratios when you are compressing data
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other data, while still compressing fast, you might look at first
using BMDiff and then compressing the output of BMDiff with
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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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

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

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
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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 package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Theodore Ts'o
23-June-2007
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It is part of the main e2fsprogs distribution, which can be found at:

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
*/
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- trivial database library - private includes
-  
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1.734 maven-resolver-provider 3.6.3

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1.735 jackson-jaxrs-json-provider 2.9.1

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.736 libevent 1.4.8

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1.738 apr 1.6.3

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1.740 boost 1.60.0
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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<i>>::type;
int main() { }

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All the value based traits in this library conform to MPL’s requirements for an Integral Constant type. Please note that these types no longer inherit from `mpl::true_` or `mpl::class::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.
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//
//
.isHiddenComment:true

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#if defined(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_c
{
  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

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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() << "</a>\"";
    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>
"</head>
"<body>
"<H1>Boost Licence Dependency Information";
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
"</H1>
"<H2>Contents</h2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
os << "<a href="#summary">Licence Summary</a>
os << "<a href="#details">Licence Details</a>
while(i != j)
{
    // title:
    os << "<A href="#" << make_link_target(licenses.first[i->first].license_name)
    << "">" << licenses.first[i->first].license_name << "</a>"
    ++i;
}

os << "<a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>
if(!m_bsl_summary_mode)
{
    os <<
    "Moving to the Boost Software License...
    "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
    "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
    "<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
    "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
    "<a href="#copyright">Copyright Holder Information</a>
}

os <<
"<a href="#depend">File Dependency Information</a>
"</pre>";

//
// input Information:
os << "<a name="input"></a><h2>Input Information</h2>
";
if(m_scan_mode)
    os << "<P>The following files were scanned for boost dependencies:<BR>
";
else
    os << "<P>The following Boost modules were checked:<BR>
";

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 << "<BR>
";
    ++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 << "<a name="summary"></a><h2>Licence Summary</h2>
";
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)</a>";

os << "</P></BLOCKQUOTE>\n";

++i;
}
}

// and now the details:

i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>

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 << "<BR>\n";
    ++x;
}

    os << "</P></BLOCKQUOTE>\n";

    // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:

    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) << "<br>\n";
    ++m;
}
Open Source Used In NAE (5.0) Florence Peak (version 5.0) 5.0.1.2

// Output list of files not found to be under license control:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2>

"<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:" << m_boost_path << "\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) << "<br>\n";
  ++i2;
}
os << "</p></BLOCKQUOTE>";
//
// Output list of files with no found copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2>

"<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:" << m_boost_path << "\n"
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
  os << split_path(m_boost_path, *i2) << "<br>\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><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
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>

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><br>
    <table border="1">
      <tr>
        <td><pre>
        <pre>
    << i->second.first << "</pre></td><n
    << i->second.second << "</pre></td>
    </tr>
  </table>
  ++i;
  ++file_num;
  }
} // Output list of files that could be moved over to the Boost Software License
//
os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
" << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:<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) << "<br>
  ++i2;
}

os << "</p"></BLOCKQUOTE><p>
// Output list of files that can NOT be moved over to the Boost Software License
//
os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
" << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:<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) << "<br>
  ++i2;
}
Output list of authors that we need permission for to move to the BSL.

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>`.

Output a table of copyright information:

Copyright Holder Information:

```
<table>
<thead>
<tr>
<th>Author</th>
<th>Files</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Doe</td>
<td></td>
</tr>
</tbody>
</table>
```

File Dependency Information:

```
<table>
<thead>
<tr>
<th>File</th>
<th>Dependencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>file1</td>
<td>file2, file3</td>
</tr>
</tbody>
</table>
```

Output a table of file dependencies:
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 << " (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";
The following is the overall license for the boost date_time library. This notice is found in all source files related to the library.

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---

Jeff Garland

&copy; 2000-2002

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---

All the value based traits in this library conform to MPL's requirements for an 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.

---

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Adapters for Boost.MPL containers.

- **boost::mpl::integral_c**<br>
  Adapter for IntegralConstants from the Boost.MPL. More...<br>

- **boost::mpl::list**<br>
  Adapter for Boost.MPL lists.<br>

- **boost::mpl::vector**<br>
  Adapter for Boost.MPL vectors.
#!/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('	')
        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

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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.VERBOSE)
    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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//
//
///////////////////////////////////////////////////////////////////////////////
#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 <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>
{};

#include <boost/container/detail/config_end.hpp>
#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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//
//
//===----------------------------------------------------------------------===

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#define BOOST_CONFIG_HPP

#include <boost/config.hpp>
#endif

#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

ifndef BOOST_CONFIG_HPP
#define BOOST_CONFIG_HPP

#include <boost/config.hpp>
#endif

ifndef BOOST_HAS_PRAGMA_ONCE

pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

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::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)));
    };  \

#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

<?xml version="1.0" encoding="UTF-8"?>
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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 Vernoon 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 (doser@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/OSF1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks (agc@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.)
Maybe this should pass?
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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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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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() { }

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 ]
];

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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>`.

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1.755 datatype 1.3.03
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<td>src/mesa/drivers/*</td>
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procfs provides functions to retrieve system, kernel and process
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1.777 perl-parent 0.225 244.el7

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1.788 ucx 1.4.0 1.el7

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1.789 godbus 1.12.6-68.gitec8512b.el7.centos

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1.790 oci-systemd-hook 0.2.0-
1.git05e6923.el7_6

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import com.fasterxml.jackson.core.Versioned;
import com.fasterxml.jackson.core.util.VersionUtil;

/**
 * Automatically generated from PackageVersion.java.in during
 * packageVersion-generate execution of maven-replacer-plugin in
 * pom.xml.
 */

public final class PackageVersion implements Versioned {
    public final static Version VERSION = VersionUtil.parseVersion("@projectversion@", "@projectgroupid@", "@projectartifactid@");

    @Override
    public Version version() {
        return VERSION;
    }
}

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

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when it starts in an interactive mode:

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

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<br><br><br>

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

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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
  Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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

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#!perl

copyright.t

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

open my $readme, '<', '../README' or die "Opening README failed: $!";

# The copyright message is the first paragraph:
local $/ = "";
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /.*\b\d{4,}/s
    or die "Year not found in README copyright message $copyright_msg";

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b\d{4,}/i
    or die "Copyright statement not found in perl -v output $output";

$year;
}

1.793 go-jmespath 1.1.8
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    Version 2.0, January 2004
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## go-diff - https://github.com/sergi/go-diff

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## golcs - https://github.com/yudai/golcs

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## cli.go - https://github.com/codegangsta/cli

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procfs provides functions to retrieve system, kernel and process
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1.801 commons-digester 1.8.1

1.802 HPPC 0.7.1

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* /opt/ws_local/PERMITS_SQL/1018363874_1591319364.0/0/hppc-0-7-1-sources-jar/com/carrotsearch/hppc/BitSet.java
* /opt/ws_local/PERMITS_SQL/1018363874_1591319364.0/0/hppc-0-7-1-sources-jar/com/carrotsearch/hppc/BitUtil.java
* /opt/ws_local/PERMITS_SQL/1018363874_1591319364.0/0/hppc-0-7-1-sources-jar/com/carrotsearch/hppc/BitSetIterator.java

1.803 plexus-component-annotations 2.1.0

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# Contributions to the OpenBLAS project

## Creator & Maintainer

* Zhang Xianyi <traits.zhang@gmail.com>

## Active Developers

* Wang Qian <traz0824@gmail.com>
  * Optimize BLAS3 on ICT Loongson 3A.
  * Optimize BLAS3 on Intel Sandy Bridge.

* Werner Saar <wernsaar@googlemail.com>
  * [2013-03-04] Optimize AVX and FMA4 DGEMM on AMD Bulldozer
  * [2013-04-27] Optimize AVX and FMA4 TRSM on AMD Bulldozer
  * [2013-06-09] Optimize AVX and FMA4 SGEMM on AMD Bulldozer
  * [2013-06-11] Optimize AVX and FMA4 ZGEMM on AMD Bulldozer
  * [2013-06-12] Optimize AVX and FMA4 CGEMM on AMD Bulldozer
  * [2013-06-16] Optimize dgemv_n kernel on AMD Bulldozer
  * [2013-06-20] Optimize ddot, daxpy kernel on AMD Bulldozer
  * [2013-06-21] Optimize dcopy kernel on AMD Bulldozer
  * Porting and Optimization on ARM Cortex-A9
  * Optimization on AMD Piledriver
  * Optimization on Intel Haswell

## Previous Developers

* Zaheer Chothia <zaheer.chothia@gmail.com>
* Improve the compatibility about complex number
* Build LAPACKE: C interface to LAPACK
* Improve the windows build.

* Chen Shaohu <huhumartinwar@gmail.com>
  * Optimize GEMV on the Loongson 3A processor.

* Luo Wen
  * Intern. Test Level-2 BLAS.

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In chronological order:

* pipping <http://page.mi.fu-berlin.de/pipping>

* Stefan Karpinski <stefan@karpinski.org>
  * [2011-12-28] Fix a bug about SystemStubs on Mac OS X.

* Alexander Eberspcher <https://github.com/aeberspaecher>
  * [2012-05-02] Add note on patch for segfaults on Linux kernel 2.6.32.

* Mike Nolta <mike@nolta.net>
  * [2012-05-19] Fix building bug on FreeBSD and NetBSD.

* Sylvestre Ledru <https://github.com/sylvestre>
  * [2012-07-01] Improve the detection of sparc. Fix building bug under Hurd and kfreebsd.

* Jameson Nash <https://github.com/vtjnash>
  * [2012-08-20] Provide support for passing CFLAGS, FFLAGS, PFLAGS, FPFLAGS to make on the command line.

* Alexander Nasonov <alnsm@yandex.ru>

* Sbastien Villemot <sebastien@debian.org>
  * [2012-11-14] Fix compilation with TARGET=GENERIC. Patch applied to Debian package.
  * [2013-08-28] Avoid failure on qemu guests declaring an Athlon CPU without 3dnow!

* Kang-Che Sung <Explorer09@gmail.com>

* Kenneth Hoste <kenneth.hoste@gmail.com>

* Lei WANG <https://github.com/wlbksy>
* [2013-05-22] Fix a bug about wget.

* Dan Luu <http://www.linkedin.com/in/danluu>

* grisuthedragon <https://github.com/grisuthedragon>
  * [2013-07-11] create openblas_get_parallel to retrieve information which parallelization model is used by OpenBLAS.

* Elliot Saba <staticfloat@gmail.com>
  * [2013-07-22] Add in return value for `interface/trtri.c`

* Sbastien Fabbro <bicatali@gentoo.org>
  * [2013-07-23] Modify makefile to respect user's LDFLAGS
  * [2013-07-24] Add stack markings for GNU as arch-independent for assembler files

* Viral B. Shah <viral@mayin.org>
  * [2013-07-21] Patch LAPACK XLASD4.f as discussed in JuliaLang/julia#2340

* Lars Buitinck <https://github.com/larsmans>
  * [2013-08-28] get rid of the generated cblas_noconst.h file
  * [2013-08-28] Missing threshold in gemm.c
  * [2013-08-28] fix default prefix handling in makefiles

* yieldthought <https://github.com/yieldthought>
  * [2013-10-08] Remove -Wl,--retain-symbols-file from dynamic link line to fix tool support

* Keno Fischer <https://github.com/loladio>
  * [2013-10-23] Use FC instead of CC to link the dynamic library on OS X

* Christopher Meng <cickumqt@gmail.com>
  * [2013-12-09] Add DESTDIR support for easier building on RPM based distros.
    Use install command instead of cp to install files with permissions control.

* Lucas Beyer <lucasb.eyer.be@gmail.com>
  * [2013-12-10] Added support for NO_SHARED in make install.

* carlkl <https://github.com/carlkl>
  * [2013-12-13] Fixed LAPACKE building bug on Windows

* Isaac Dunham <https://github.com/idunham>
  * [2014-08-03] Fixed link error on Linux/musl

* Dave Nuechterlein
  * [2014-10-10] trmm and sgemm kernels (optimized for APM's X-Gene 1).
    ARMv8 support.

* Jerome Robert <jeromerobert@gmx.com>
* [2015-01-01] Speed-up small `ger` and `gemv` using stack allocation (bug #478)
* [2015-12-23] `stack_check` in `gemv.c` (bug #722)
* [2015-12-28] Allow to force the number of parallel make job
* [2015-12-28] Fix detection of AMD E2-3200 detection
* [2015-12-31] Let `make MAX_STACK_ALLOC=0` do what expected
* [2016-01-19] Disable multi-threading in `ger` and `swap` for small matrices (bug #731)
* [2016-01-24] Use `GEMM_MULTITHREAD_THRESHOLD` as a number of ops (bug #742)
* [2016-01-26] Let `openblas_get_num_threads` return the number of active threads (bug #760)
* [2016-01-30] Speed-up small `zger`, `zgemv`, `ztrmv` using stack allocation (bug #727)

* Dan Kortschak
  * [2015-01-07] Added test for drotmg bug #484.
* Ton van den Heuvel <https://github.com/ton>
  * [2015-03-18] Fix race condition during shutdown causing a crash in gotoblas_set_affinity().
* Martin Koehler <https://github.com/grisuthedragon/>
  * [2015-09-07] Improved imatcopy

* Ashwin Sekhar T K <https://github.com/ashwinyes/>
  * [2015-11-09] Assembly kernels for Cortex-A57 (ARMv8)
  * [2015-11-20] lapack-test fixes for Cortex-A57
  * [2016-03-14] Additional functional Assembly Kernels for Cortex-A57
  * [2016-03-14] Optimize Dgemm 4x4 for Cortex-A57

* theoractice <https://github.com/theoractice/>
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  * [2016-03-22] Fix access violation on Windows while static linking
* Paul Mustire <https://github.com/buffer51/>
  * [2016-02-04] Fix Android build on ARMV7
  * [2016-04-26] Android build with LAPACK for ARMV7 & ARMV8

* Shivraj Patil <https://github.com/sva-img/>
  * [2016-05-03] DGEMM optimization for MIPS P5600 and I6400 using MSA

* Kaustubh Raste <https://github.com/ksraste/>
  * [2016-05-09] DTRSM optimization for MIPS P5600 and I6400 using MSA
  * [2016-05-20] STRSM optimization for MIPS P5600 and I6400 using MSA

* Abdelrauf <https://github.com/quickwritereader>
  * [2017-01-01] dgemm and dtrmm kernels for IBM z13
  * [2017-02-26] ztrmm kernel for IBM z13
  * [2017-03-13] strmm and cstrmm kernel for IBM z13
  * [2017-09-01] initial Blas Level-1,2 (double precision) for IBM z13
  * [2018-03-07] added missing Blas Level 1-2 (double precision) simd codes
  * [2019-02-01] added missing Blas Level-1,2 (single precision) simd codes
  * [2019-03-14] power9 dgemm/dtrmm kernel
* [2019-04-29] power9 sgemm/strmm kernel
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1.824 perl-carp 1.26 244.el7

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mgo - MongoDB driver for Go

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 *
 */

package spdx

// from https://spdx.org/licenses/
var osi = []string{
    "AFL-1.1",
    "AFL-1.2",
    "AFL-2.0",
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Open Source Used In NAE (5.0) Florence Peak (version 5.0) 5.0.1.2 7668
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"Zimbra-1.4",
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" ZPL-1.1",
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// FIXME: non SPDX licenses that the snapstore uses
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}

// from
https://www.google.com/url?q=https://docs.google.com/a/s.sfusd.edu/document/d/1wE_zvLU4c291ACi9wIJmQoE4l0KRW4rM1TYilvEVOs/edit?pli%3D1%23heading%3Dh.ruw3y18g6czd&sa=D&ust=1473291615601000&usg=AFQjCNFyLcPLeEarX1TOesGWxg9Af57mA

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Gocheck - A rich testing framework for Go

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tomb - support for clean goroutine termination in Go.

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1.830 security-provider 1.64

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1.836 e2fsprogs 1.42.9 16.el7

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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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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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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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) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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Theodore Ts'o
23-June-2007

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

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Gadi Oxman, August 1995

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/*
 */
-  Unix SMB/CIFS implementation.
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It is part of the main e2fsprogs distribution, which can be found at:

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1.845 javax-ws-rs-api 2.0.1

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1.847 cryptsetup 2.0.3 5.el7

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From 74331750f118690ca3c375e52b10272b992320e7 Mon Sep 17 00:00:00 2001
From: Andrea Claudi <aclaudi@redhat.com>
Date: Mon, 29 Apr 2019 20:09:13 +0200
Subject: [PATCH] ip{6, }tunnel: Avoid copying user-supplied interface name around

Bugzilla: https://bugzilla.redhat.com/show_bug.cgi?id=1465646
Upstream Status: iproute2.git commit 26111ab1dba82

commit 2611ab1db820421ccaf283ac097a79b95023a2
Author: Phil Sutter <phil@nw1.cc>
Date:   Mon Oct 2 13:46:35 2017 +0200

ip{6, }tunnel: Avoid copying user-supplied interface name around

In both files' parse_args() functions as well as in iptunnel's do_prl() and do_6rd() functions, a user-supplied 'dev' parameter is uselessly copied into a temporary buffer before passing it to ll_name_to_index() or copying into a struct ifreq. Avoid this by just caching the argv pointer value until the later lookup/strcpy.

Signed-off-by: Phil Sutter <phil@nw1.cc>

---
ip/ip6tunnel.c |  6 ++--
ip/ip6tunnel.c | 22 ++++++++--------
2 files changed, 12 insertions(+), 16 deletions(-)

diff --git a/ip/ip6tunnel.c b/ip/ip6tunnel.c
index b4a7def144226..c12d700e74189 100644
--- a/ip/ip6tunnel.c
+++ b/ip/ip6tunnel.c
static void print_tunnel(struct ip6_tnl_parm2 *p)
static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
{
    int count = 0;
    char medium[IFNAMSIZ] = {};
    const char *medium = NULL;

    while (argc > 0) {
        if (strcmp(*argv, "mode") == 0) {
            memcpy(&p->laddr, &laddr.data, sizeof(p->laddr));
        } else if (strcmp(*argv, "dev") == 0) {
            NEXT_ARG();
            strncpy(medium, *argv, IFNAMSIZ - 1);
            +medium = argv;
        } else if (strcmp(*argv, "encaplimit") == 0) {
            NEXT_ARG();
            if (strcmp(*argv, "none") == 0) {
                count++;
                argc--; argv++;
            }
            if (medium[0]) {
                p->link = il_name_to_index(medium);
                if (p->link == 0) {
                    fprintf(stderr, "Cannot find device \"%s\"\n", medium);
                    diff --git a/ip/iptunnel.c b/ip/iptunnel.c
                    index 105d0f5576f1a..0acfd0793d3cd 100644
                    --- a/ip/iptunnel.c
                    +++ b/ip/iptunnel.c
                    @@ -60,7 +60,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
                    p->iph.saddr = htonl(INADDR_ANY);
                } else if (strcmp(*argv, "dev") == 0) {
                    NEXT_ARG();
                    strncpy(medium, *argv, IFNAMSIZ - 1);
                    +medium = argv;
                } else if (strcmp(*argv, "ttl") == 0 ||
                    strcmp(*argv, "hoplimit") == 0 ||
                    strcmp(*argv, "encaplimit") == 0) {
                    if (strcmp(*argv, "none") == 0) {
                        count++;
                        argc--; argv++;
                    }
                    if (medium[0]) {
                        p->link = il_name_to_index(medium);
                        if (p->link == 0) {
                            fprintf(stderr, "Cannot find device \"%s\"\n", medium);
                            diff --git a/ip/iptunnel.c b/ip/iptunnel.c
                            index 105d0f5576f1a..0acfd0793d3cd 100644
                            --- a/ip/iptunnel.c
                            +++ b/ip/iptunnel.c
                            @@ -60,7 +60,7 @@ static int parse_args(int argc, char **argv, int cmd, struct ip6_tnl_parm2 *p)
                            p->iph.saddr = htonl(INADDR_ANY);
                        } else if (strcmp(*argv, "dev") == 0) {
                            NEXT_ARG();
                            strncpy(medium, *argv, IFNAMSIZ - 1);
                            +medium = argv;
                        } else if (strcmp(*argv, "ttl") == 0 ||
                            strcmp(*argv, "hoplimit") == 0 ||
if (medium[0]) {
++p->link = ll_name_to_index(medium);
if (p->link == 0) {
    fprintf(stderr, "Cannot find device "%s"
", medium);
}
}

	if (medium) {
    struct ip_tunnel_prl p = {};
    int count = 0;
    -int devname = 0;
    int cmd = 0;
    -char medium[IFNAMSIZ] = {};
    +const char *medium = NULL;

    while (argc > 0) {
        if (strcmp(*argv, "prl-default") == 0) {
            count++;
        } else if (strcmp(*argv, "dev") == 0) {
            NEXT_ARG();
            - strncpy(medium, *argv, IFNAMSIZ-1);
            -devname++;
            +medium = *argv;
        } else {
            fprintf(stderr, "Invalid PRL parameter \"%s\"\n", *argv);
        }
    }
    argc--; argv++;
}

-else if (devname == 0) {
    fprintf(stderr, "Must specify device\n");}

@ @ -513,9 +511,8 @@ static int do_prl(int argc, char **argv)
static int do_6rd(int argc, char **argv)
{
    struct ip_tunnel_6rd ip6rd = {};
    -int devname = 0;
    int cmd = 0;
    -char medium[IFNAMSIZ] = {};
    +const char *medium = NULL;
inet_prefix prefix;

while (argc > 0) {
    @ @ -537.8 +534.7 @ @ static int do_6rd(int argc, char **argv)
    cmd = SIOCDEL6RD;
} else if (strcmp(*argv, "dev") == 0) {
    NEXT_ARG();
    -strncpy(medium, *argv, IFNAMSIZ-1);
    -devname++;
    +medium = *argv;
} else {
    fprintf(stderr,
        "Invalid 6RD parameter \"%s\"\n", *argv);
    @ @ -546.7 +542.7 @ @ static int do_6rd(int argc, char **argv)
    }
    argc--; argv++;}
    -if (devname == 0) {
        +if (!medium) {
            fprintf(stderr, "Must specify device\n");
            exit(-1);
        }
    --
    2.21.0

1.852 joni 2.1.6
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1.853 python-ipy 0.75 6.el7
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1.854 graph-tool 2.27-1.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.

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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(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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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.

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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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Ty Coon, President of Vice

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1.856 Jackson-dataformat-CBOR 2.8.11
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1.857 python-iniparse 0.4-6.ph3
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iniparse/compat.py and tests/test_compat.py contain code derived from
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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* /opt/ws_local/PERMITS_SQL/1071982953_1594967905.71/0/netty-transport-4-1-30-final-sources-1-jar/io/netty/channel/SelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1071982953_1594967905.71/0/netty-transport-4-1-30-final-sources-1-jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1071982953_1594967905.71/0/netty-transport-4-1-30-final-sources-1-jar/io/netty/channel/socket/DuplexChannel.java
* /opt/ws_local/PERMITS_SQL/1071982953_1594967905.71/0/netty-transport-4-1-30-final-sources-1-jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1071982953_1594967905.71/0/netty-transport-4-1-30-final-sources-1-jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1071982953_1594967905.71/0/netty-transport-4-1-30-final-sources-1-jar/io/netty/channel/ChannelInboundInvoker.java
* /opt/ws_local/PERMITS_SQL/1071982953_1594967905.71/0/netty-transport-4-1-30-final-sources-1-jar/io/netty/channel/SelectStrategyFactory.java
* /opt/ws_local/PERMITS_SQL/1071982953_1594967905.71/0/netty-transport-4-1-30-final-sources-1-jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/ws_local/PERMITS_SQL/1071982953_1594967905.71/0/netty-transport-4-1-30-final-sources-1-jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1071982953_1594967905.71/0/netty-transport-4-1-30-final-sources-1-
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jar/io/netty/channel/AbstractCoalescingBufferQueue.java

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 */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline}.  
 * <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>
* 
* 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:
* 
* public interface Message {
*     // your methods here
* }
* 
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
*     <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();
*             }
*     }
* }
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 an unauthenticated client can get
the confidential information:
<pre>
// Create a new handler instance per channel.
// See [ChannelInitializer#initChannel(Channe]l].
public class DataServerInitializer extends ChannelInitializer&lt;Channel&gt; {  
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
</pre>

<h4>Using [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 [AttributeKey]s which is provided by
[ChannelHandlerContext]:
<pre>
public interface Message {
    // your methods here
}

@Sharable
public class DataServerHandler extends SimpleChannelInboundHandler&lt;Message&gt; {
    private final AttributeKey&lt;Boolean&gt; auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute&lt;Boolean&gt; attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                
```
Now that the state of the handler is attached to the `ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends ChannelInitializer<Channel> {

    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

**The `@Sharable` annotation**

In the example above which used an `AttributeKey`, you might have noticed the `@Sharable` annotation.

If a `ChannelHandler` is annotated with the `@Sharable` annotation, it means you can create an instance of the handler just once and add it to one or more `ChannelPipeline`s multiple times without a race condition.

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.

This annotation is provided for documentation purpose, just like the JCIP annotations:

```
```

**Additional resources worth reading**

Please refer to the `ChannelHandler`, and `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.
1.861 driverctl 0.108-1.el7_6

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1.867 servo-core 0.12.28

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1.870 spring-boot 1.0.21.RELEASE
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   INF/maven/org.springframework.boot.experimental/spring-boot-thin-wrapper/pom.xml

1.871 lucene-backward-codecs 7.5.0

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libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo, to wordsmith certain sections, and to remove impolitic language that existed in the libjpeg v8 README. It is included only for reference. Please see README.md for information specific to libjpeg-turbo.

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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.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
usage.txt Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
CODERULES.TXT  Coding style rules --- please read if you contribute code.

Please read at least USAGE.TXT. Some 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 encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

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. 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.

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent (now expired), GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We 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 PDF file containing a revised version of Wallace's article is available at http://www.ijg.org/files/Wallace.JPEG.pdf. 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 JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm.

A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/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.comgraphics/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 http://www.ijg.org/files/. 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.

ARCHIVE LOCATIONS
The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files".

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. 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/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
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FILE FORMAT WARS

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(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

libsdI
skia

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vulkanmemoryallocator

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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.4, March 14th, 2010

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=end comment

{{appName}}

{{appDescription}}

{{version}}OpenAPI spec version: {{version}}

{{infoEmail}}Contact: {{infoEmail}}

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=end comment

=cut

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.salaranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function:
`{ case (a, b) => ... }

val x: ((Int, Int) => Int) = (((a, b)) => a)

^ not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

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Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function:
`{ case (param1, param2) => ... }

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val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

^ not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple3,
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`{ case (param1, ..., param3) => ... }

val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

^ three errors found
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1.878 libnuma 1.3.1-1ubuntu10.30

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1.879 netty-codec-socks 4.1.23

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@heading TERMS AND CONDITIONS

@enumerate 0
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1.891 unzip 6.0-20.el7.0atomix2
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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket...
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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*
* Basic encoding and decoding of Macintosh files to the
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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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.

--------------------------------------------------------------------------

1.892 nss 3.34.0-2.el7

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func initLgpl() {
  Licenses["lgpl"] = License{
    Name: "GNU Lesser General Public License",
    PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
    Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Lesser General Public License as published by
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func initBsdClause2() {

Licenses["freebsd"] = License{
Name: "Simplified BSD License",
PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
"2 clause bsd", "simplified bsd license"},
Header: `All rights reserved.`}
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// Package legal provides in-process storage for compiled-in licenses.
package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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package cmd

import (  "strings"
"time"

"github.com/spf13/viper"

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license

type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLgpl()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{
            Header: viper.GetString("license.header"),
            Text: viper.GetString("license.text")
        }
    }

    return Licenses["Apache2.0"]
}
// If user wants to have built-in license, use that.
if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
}

// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]

func copyrightLine() string {
    author := viper.GetString("author")

    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }

    return "Copyright " + year + " " + author
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        er("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }

    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}
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package legal

import (  
    "testing"
)

func TestRegisterLicense(t *testing.T) {  
    initial := len(licenses)  
    RegisterLicense("dummy")  
    if initial+1 != len(licenses) {  
        t.Fatal("didn't add a license")  
    }  
}  

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mgo - MongoDB driver for Go

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func initGpl3() {
    Licenses["gpl3"] = License{
        Name: "GNU General Public License 3.0",
        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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func initBsdClause3() { 
Licenses["bsd"] = License{
Name: "NewBSD",
PossibleMatches: []("bsd", "newbsd", "3 clause bsd", "3-clause bsd"),
Header: "All rights reserved.
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  Licenses["gpl2"] = License{
    Name: "GNU General Public License 2.0",}
PossibleMatches: ["gpl2", "gnu gpl2", "gplv2"],
Header: `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.

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BSON library for Go

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tomb - support for clean goroutine termination in Go.

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        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `
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func initAgpl() {
    Licenses["agpl"] = License{
        Name: "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
        Header: `This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
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1.896 netty-codec-http 4.1.30

1.897 jersey 1.1.5.1

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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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
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Go support for Protocol Buffers - Google's data interchange format

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1.959 rdma-core 22.1-3.el7

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1.960 gnupg 2.0.22 5.el7_5

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.981 python-requests 2.6.0-9.el7_7

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1.982 openssh 7.5.14i.1.5.18-20190711003359.el7

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[Tatu continues]

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* @version 3.0 (December 2000)
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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.988 jetty-servlet 9.2.22.v20170606

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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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1.992 lang-painless 6.5.4

1.993 qt 4.11.1-1e7
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/*
 * SpanDSP - a series of DSP components for telephony
 *
 * g722_decode.c - The ITU G.722 codec, decode part.
 *
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 *
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 *
 * Based in part on a single channel G.722 codec which is:
 *
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 * Chengxiang Lu and Alex Hauptmann
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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
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# always starting with './').
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# Don't put empty lines into this file!
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#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
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/ftrandom/ftrandom.c
#
# EOF
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C++ Big Integer Library
(see ChangeLog for version)

http://mattmccutchen.net/bigint/
You can use this library in a C++ program to do arithmetic on integers of size limited only by your computer's memory. The library provides BigUnsigned and BigInteger classes that represent nonnegative integers and signed integers, respectively. Most of the C++ arithmetic operators are overloaded for these classes, so big-integer calculations are as easy as:

```
#include "BigIntegerLibrary.hh"

BigInteger a = 65536;
cout << (a * a * a * a * a * a * a * a);
```

(prints 340282366920938463463374607431768211456)

The code in `sample.cc' demonstrates the most important features of the library. To get started quickly, read the code and explanations in that file and run it. If you want more detail or a feature not shown in `sample.cc', consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed; some users will prefer GMP (http://swox.com/gmp/), which is faster. The code is intended to be reasonably portable across computers and modern C++ compilers; in particular, it uses whatever word size the computer provides (32-bit, 64-bit, or otherwise).

Compiling programs that use the library
---------------------------------------

The library consists of a folder full of C++ header files (`.hh') and source files (`.cc'). Your own programs should `#include' the necessary header files and link with the source files. A makefile that builds the sample program (`sample.cc') is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked with the library source files; otherwise, you will get errors about missing header files or "undefined references". To learn how to do this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

Resources
---------

The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.
Bugs and enhancements

---------------------

The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling trouble, a mathematically inaccurate result, or a memory-management bloop (since I use Java, these are altogether too common in my C++). I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

Legal

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

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

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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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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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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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4. You may copy and distribute the Library (or a portion or
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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
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structure layouts and accessors, and small macros and small inline
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file is unrestricted, regardless of whether it is legally a derivative
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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.
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6. As an exception to the Sections above, you may also combine or
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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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/
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*
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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  - `libavcodec/x86/flac_dsp_gpl.asm`
  - `libavcodec/x86/idct_mmx.c`
  - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make_sunver.pl`
  - `doc/t2h.pm`
  - `doc/texi2pod.pl`
  - `libswresample/swresample-test.c`
  - `tests/checkasm/*`
  - `tests/tiny_ssim.c`
- the following filters in libavfilter:
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
  - `vf_eq.c`
  - `vf_find_rect.c`
  - `vf_fspp.c`
  - `vf_geq.c`
  - `vf_histeq.c`
  - `vf_hqdn3d.c`
  - `vf_interlace.c`
  - `vf_kerndeint.c`
  - `vf_mcdeint.c`
  - `vf_mpdecimate.c`
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  - `vf_pp7.c`
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- `vf_spp.c`
- `vf_stereo3d.c`
- `vf_super2xsai.c`
- `vf_tinterlace.c`
- `vf_uspp.c`
- `vsrc_mptestsrc.c`

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, `COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
* `tests/reference.pnm` is under the expat license.

## External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

### Compatible libraries

The following libraries are under GPL:
- frei0r
- libcdio
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxvid

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.
### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. This will cause the resulting binary to be unredistributable.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

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The code in this library is an extension of Bala Vatti's clipping algorithm:
"A generic solution to polygon clipping"
http://portal.acm.org/citation.cfm?id=129906

Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
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http://books.google.com/books?q=vatti+clipping+agoston

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"Polygon Offsetting by Computing Winding Numbers"
Paper no. DETC2005-85513 pp. 565-575
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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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## 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 "$\(GEN\_DEPS.c\) $< \n | sed "s/(\$\v)\(\o\:.*\)/\1.o $@ : /g" > $@;\n | -s $@ ] || rm -f $@"
%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$\(SHELL\) -ec "$\(GEN\_DEPS.cc\) $< \n | sed "s/(\$\v)\(\o\:.*\)/\1.o $@ : /g" > $@;\n | -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
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/*
 * $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
 * Portable Audio I/O Library
 * Memory barrier utilities
 *
 * Author: Bjorn Roche, XO Audio, LLC
 *
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/*
* $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
* Portable Audio I/O Library
* Ring Buffer utility.
* *
* Author: Phil Burk, http://www.softsynth.com
* modified for SMP safety on Mac OS X by Bjorn Roche
* modified for SMP safety on Linux by Leland Lucius
* also, allowed for const where possible
* modified for multiple-byte-sized data elements by Sven Fischer
* *
* Note that this is safe only for a single-thread reader and a
* single-thread writer.
* *
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Mesa 3-D graphics library
Version: 7.0

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The code in this library is an extension of Bala Vatti's clipping algorithm:
"A generic solution to polygon clipping"
http://portal.acm.org/citation.cfm?id=129906

Computer graphics and geometric modeling: implementation and algorithms
By Max K. Agoston
Springer; 1 edition (January 4, 2005)
http://books.google.com/books?q=vatti+clipping+agoston

See also:
"Polygon Offsetting by Computing Winding Numbers"
Paper no. DETC2005-85513 pp. 565-575
ASME 2005 International Design Engineering Technical Conferences
and Computers and Information in Engineering Conference (IDETC/CIE2005)
September 24-28, 2005 , Long Beach, California, USA
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C++ port by Konstantin Kfer <mail@kkaefer.com>, 2014.

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`cssmin.py` - A Python port of the YUI CSS compressor.

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Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.
12.3. Mutual Right to Terminate
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.

12.4. Parties Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:
(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or
(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by
the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE
In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:
(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS’ Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:
(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
(iii) 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 Finland Chamber of Commerce. 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. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS
14.1. No Assignment
Except in the case of a merger or sale of substantially all of its corporate assets, 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 The Qt Company, which shall not be unreasonably withheld or delayed.
The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations
Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive. Such sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order accepted by The Qt Company constitute 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.

In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over any click-to-accept or similar agreements the Designated Users may need to accept online upon download of the Licensed Software, as may be required by The Qt Company's applicable processes relating to Licensed Software.

14.5. Modifications
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 ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms."

14.6. Force Majeure
Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure
Event”). If the Force Majeure Event 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.

14.7. 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 for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control
Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder 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 Redistributables, Applications and/or Devices.

14.9. 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 The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data
Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES
The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1
The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

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The provisions of this Appendix 4 are applicable for Start-up Companies and for the Evaluation Term. For the purpose of this Appendix 4, the following
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"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

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'zlib' general purpose compression library
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text format.
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Oleg Smolsky <oleg.smolsky@gmail.com>
  * MS Visual Studio error format option.
  * Detect unordered_map in stl_hash.m4.
Brian Olson <brianolson@google.com>
* gzip/zlib I/O support.

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* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>

* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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./test/prec_inverse_4x4.cpp
./test/smallvectors.cpp
./test/redux.cpp
./test/special_numbers.cpp
./test/adjoint.cpp
./test/resize.cpp
./test/mixingtypes.cpp
./test/product_trmv.cpp
./test/sparse_solvers.cpp
./test/cholesky.cpp
./test/geo_quaternion.cpp
./test/miscmatrices.cpp
./test/stddeque.cpp
./test/integer_types.cpp
./test/product_large.cpp
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./test/geo_orthomethods.cpp
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./test/sparseLM.cpp
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./test/eigen2support.cpp
./test/denseLM.cpp
/test/eigen2/eigen2_first_aligned.cpp
/test/eigen2/eigen2_cholesky.cpp
/test/eigen2/eigen2_determinant.cpp
/test/eigen2/eigen2_sum.cpp
/test/eigen2/eigen2_inverse.cpp
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/test/eigen2/eigen2_product_small.cpp
/test/eigen2/eigen2_qtvector.cpp
/test/eigen2/eigen2_sparse_vector.cpp
/test/eigen2/product.h
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/test/product_syrk.cpp
/test/commainitializer.cpp
/test/conservative_resize.cpp
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/bench/sphbench/sphbenchsolver.h
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/lapack/cholesky.cpp
/lapack/lapack_common.h
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/lapack/lu.cpp
/lapack/complex_single.cpp
/lapack/double.cpp
/demos/mix_eigen_and_c/binary_library.cpp
/demos/mix_eigen_and_c/binary_library.h
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--- end of FTL.TXT ---

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GL
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Mesa Component Licenses

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jpeg
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* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
* Date: Fri, Jun 24, 2011 at 3:20 AM
* Subject: Re: sqrt routine
* To: Kevin Ma <kma@google.com>
* Hi Kevin,
* Thanks for asking. Those routines are public domain (originally posted to comp.sys.arm a long time ago), so you can use them freely for any purpose.
* Cheers,
* Wilco
*
* ----- Original Message -----*
* From: "Kevin Ma" <kma@google.com>
* To: <Wilco.Dijkstra@ntlworld.com>
* Sent: Thursday, June 23, 2011 11:44 PM
* Subject: Fwd: sqrt routine
* Hi Wilco,
* I saw your sqrt routine from several web sites, including
* http://www.finesse.demon.co.uk/steven/sqrt.html.
* Just wonder if there's any copyright information with your Successive
* approximation routines, or if I can freely use it for any purpose.
* Thanks.
* Kevin
*/

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THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

7.2 Licensees Indemnification

Licensee shall indemnify and hold harmless The Qt Company from and against any claim, injury, judgment, settlement, loss or expense, including attorneys' fees related to: (a) Licensee's misrepresentation in connection with The Qt Company or the Licensed Software or breach of this Agreement, (b) the Application or Device (except where such cause of liability is solely attributable to the Licensed Software).

8. SUPPORT, UPDATES AND ONLINE SERVICES

Licensee will be eligible to receive Support and Updates and to use the Online Services during the Support Term. Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

Licenses granted under this Agreement shall include a prepaid Initial Support Term.

Initial Support Term shall be automatically extended to one or more Support Renewal Term(s), unless and until either Party notifies the other Party in writing that it does not wish to continue the Support, such notification to be provided to the other Party no less than ninety (90) days before expiry of the Initial Support Term or respective Support Renewal Term. During any such Support Renewal Term Support shall be available subject to prices and terms agreed between the Parties or, if no advance agreement exists, subject to The Qt Company's standard pricing applicable at the commencement date of any such Support Renewal Term. From time to time The Qt Company may change Support
provided within each Support plan; provided that during the respective Initial Support Term or Support Renewal Term (as the case may be), the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing any service or support to the Customers.

9. CONFIDENTIALITY

Each Party acknowledges that during the Term of this Agreement each Party may receive 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 ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in 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.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors 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; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade
secret laws.

10. FEES, DELIVERY AND PAYMENT

10.1 License Fees

License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be. The License Fees shall not be refunded or claimed as a credit, even on the ground that Distribution Licenses are not used, i.e. Redistributables are not actually distributed corresponding to the Distribution Licenses purchased, or for any other reason.

10.2 Ordering Licenses

Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3 Distribution

License Packs Unless otherwise agreed, the Distribution Licenses are bought by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for installing, bundling or integrating (all jointly "installing") the Redistributables with the Devices or for otherwise distributing the Redistributables in accordance with this Agreement.

Each time Licensee "installs" or distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly.

Licensee may "install" copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

Redistributables will be deemed to have been "installed" into a Device when one of the following circumstances shall have occurred: a) the Redistributables have been loaded onto the Device and used outside of the Licensee's premises or b) the Device has been fully tested and placed into Licensee's inventory (or sold) for the first time (i.e., Licensee will not be required to use (or pay
for) more than one Distribution License for each individual Device, e.g. in a situation where a Device is returned to Licensee's inventory after delivery to a distributor or sale to a Customer). In addition, if Licensee includes a back-up copy of the Redistributables on a CD-ROM or other storage medium along with the product, that backup copy of the Redistributables will not be deemed to have been "installed" and will not require an additional Distribution License.

10.4 Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee. A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

The Qt Company shall have the right to suspend, terminate or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Developer License, Distribution License, and Support, should Licensee fail to make payment in a timely fashion.

10.5 Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax and other taxes, duties or tariffs ("Taxes"). Such applicable Taxes shall be paid by Licensee, or, where applicable, in lieu of payment of such Taxes, Licensee shall provide an exemption certificate to The Qt Company and any applicable authority.

11 RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS

11.1 Licensee's Record-keeping
Licensee shall at all times maintain accurate and up-to-date written records of Licensee's activities related to the use of Licensed Software and distribution of Redistributables. The records shall be adequate to determine Licensee's compliance with the provisions of this Agreement and to demonstrate the number of Designated Users and Redistributables distributed by Licensee. The records shall conform to good accounting practices reasonably acceptable to The Qt Company.

Licensee shall, within thirty (30) days from the end of each calendar quarter, deliver to The Qt Company a report detailing the number of Designated Users and copies of Redistributables distributed by Licensee during that calendar quarter, and also detailing the number of undistributed copies of Redistributables made by Licensee and remaining in its account (i.e.,
undistributed copies for which Distribution Licenses have been or need to be obtained from The Qt Company). Such report shall contain such other information as The Qt Company shall reasonably require from time to time.

11.2. The Qt Company's Audit Rights

The Qt Company or an independent auditor acting on behalf of The Qt Company's, may, upon at least five (5) business days’ prior written notice and at its expense, audit Licensee with respect to the use of the Redistributables, but not more frequently than once during each 6-month period. 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. The Qt Company or the independent auditor acting on behalf of The Qt Company shall be entitled to inspect Licensee's Records. All such Licensee's Records and use thereof shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope of the licenses Licensee has paid for, Licensee agrees to immediately pay The Qt Company any amounts owed for such unauthorized use.

In addition, in the event the audit reveals a material violation of the terms of this Agreement (underpayment of more than 5% of License Fees shall always be deemed a material violation for purposes of this section), then the Licensee shall pay The Qt Company's reasonable cost of conducting such audit.

12 TERM AND TERMINATION

12.1 Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms of this Section 12.

12.2 Termination by The Qt Company

The Qt Company shall have the right to terminate this Agreement upon thirty (30) days prior written notice if (i) the Licensee is in material breach of any obligation of this Agreement and fails to remedy such breach within such notice period; (ii) or Licensee or any of its Affiliates bring a suit before any court or administrative agency or otherwise assert a claim against The Qt Company's or any of its Affiliates' Intellectual Property Rights or validity thereof.

12.3 Mutual Right to Terminate

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.

12.4 Parties Rights and Duties upon Termination

Upon expiry or termination of the Agreement for any reason, Licensee shall, within 30 days after such termination, cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') and Licensee's SDK Contractors to cease using the Licensed Software and distribution of the Redistributables under this Agreement. Notwithstanding the above, in the event the Agreement expires or is terminated for reason other than by The Qt Company pursuant to Section 12.2, the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

13. GOVERNING LAW AND LEGAL VENUE

In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco,
USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:

(i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;

(ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and

(iii) 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 Finland Chamber of Commerce. 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. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1 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 The Qt Company, which shall not be unreasonably withheld or delayed. The Qt Company shall be entitled to freely assign or transfer any of its rights, benefits or obligations under this Agreement.

14.2 No Third Party Representations

Licensee shall make no representations or warranties concerning the Licensed Software on behalf of The Qt Company. Any representation or warranty Licensee makes or purports to make on The Qt Company's behalf shall be void as to The Qt Company.

14.3 Surviving Sections

Any terms and conditions that by their nature or otherwise reasonably should survive termination of this Agreement shall so be deemed to survive.
14.4 Entire Agreement

This Agreement, the exhibits hereto, the License Certificate and any applicable Purchase Order constitute 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. In the event of any conflict or inconsistency between this Agreement and any Purchase Order, the terms of this Agreement will prevail over the terms of the Purchase Order with respect to such conflict or inconsistency.

14.5 Modifications

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 The Qt Company in writing.

14.6 Force Majeure

Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent (“Force Majeure Event”). If the Force Majeure Event 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.

14.7 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 for The Qt Company in the beginning of this Agreement, and for the Licensee in the Licensee’s account profile. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8 Export Control

Licensee acknowledges that the Redistributables may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all lawses hereunder and shall procure all necessary governmental authorizations, including without limitation, all
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14.9 No Implied License
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immunities are granted to the combination of the Licensed Software with any
other software or hardware not delivered by The Qt Company under this Agreement.

14.10 Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled
to recover its attorney's fees and costs in connection with such action.

14.11 Severability
If any provision of this Agreement shall be adjudged by any court of competent
jurisdiction to be unenforceable or invalid, that provision shall be limited or
eliminated to the minimum extent necessary so that this Agreement shall
otherwise remain in full force and effect and enforceable.

IN WITNESS WHEREOF, the Parties hereto, intending to be legally bound hereby,
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Appendix 1

1. Parts of the Licensed Software that are permitted for distribution in object
code form only ("Redistributables") under this Agreement:

- The Licensed Software's essential and add-on libraries

- The Licensed Software's configuration tool ("qtconfig")

- The Licensed Software's help tool ("Qt Assistant")

- The Licensed Software's internationalization tools ("Qt Linguist", "lupdate",
"lrelease")

- The Licensed Software's QML ("Qt Quick") launcher tool ("qmlscene" and
"qmlviewer")

- The Licensed Software's installer framework

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 documentation generation tool ("qdoc")

- 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 parts of the IDE tool ("Qt Creator")

- The Licensed Software's Emulator

- Build scripts, recipes and other material for creating the configuration of Licensed Software and/or 3rd party components, including the reference operating system configuration delivered in conjunction with the MIT License

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^tools/utils/qtcreator/
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 *
 * ***** END LICENSE BLOCK ***** */
# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Mocking 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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I intend for all new source code to use the license below and hope over time to replace code with other licenses with new implementations that do use the license below. The varying licensing of the build scripts seems to be an unavoidable mess.

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^ expected errors | v input
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// found in the LICENSE file.
/*---
estid: sec-assignment-operators-static-semantics-early-errors
description: Minimal test
---*/

void 0;
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Written by: Philip Hazel
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1.994 perl-time-local 1.2300 2.el7

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Arnaud LE HORS  BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)
Summary

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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b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

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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 corrections.

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IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre*Kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.
The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

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:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland
This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:
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Version 2.1, February 1999

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**1.1017 libxext 1.3.3 3.el7**

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1.1023 libphonenumber 8.0.0

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1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
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 snntp
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
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26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]H.Lambermont@chello.nl ntpswipe
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 */

/**
 * Creates a new [ GeneratorAdapter]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * [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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* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-
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* Creates a new JSRInliner. <i>Subclasses must not use this
* constructor. 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.
*/

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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 <tt>null</tt>.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-
jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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/opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/signature/SignatureWriter.java
/opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
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/opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
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/opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/tree/TypeInsnNode.java
/opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/signature/SignatureReader.java
/opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/tree/analysis/Frame.java
/opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
/opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
/opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/ClassConstantsCollector.java
/opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/ClassWriter.java
/opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/tree/LabelNode.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/tree/Remapping/AnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/tree/FieldConstantsCollector.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/Edge.java
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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.
 */

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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/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-
  jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-
  jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-
  jar/org/objectweb/asm/xml/SAXFieldAdapter.java
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  jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-
  jar/org/objectweb/asm/xml/Processor.java
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  jar/org/objectweb/asm/xml/SAXClassAdapter.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 fist 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/ws_local/PERMITS_SQL/1032656228_1594238194.74/0/asm-tree-5-0-4-sources-1-jar/org/objectweb/asm/commons/package.html
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1.1034 jackson-dataformat-csv 2.9.3

1.1035 xinclude 1.2.5

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1.1038 jackson-module-jaxb-annotations 2.9.3

1.1039 bcel 2.7.2

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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 form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c0f2bb5b6.

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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.

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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    INVALID((byte) 1),
    EXPIRED((byte) 2);

    private final byte id;

    LicensesStatus(byte id) {
        this.id = id;
    }

    public int id() {
        return id;
    }

    public static LicensesStatus fromId(int id) {
        if (id == 0) {
            return VALID;
        } else if (id == 1) {
return INVALID;
} else if (id == 2) {
    return EXPIRED;
} else {
    throw new IllegalStateException("no valid LicensesStatus for id=" + id);
}
}

@Override
public String toString() {
    return this.name().toLowerCase(Locale.ROOT);
}

public static LicensesStatus fromString(String value) {
    switch (value) {
    case "valid":
        return VALID;
    case "invalid":
        return INVALID;
    case "expired":
        return EXPIRED;
    default:
        throw new IllegalArgumentException("unknown licenses status [" + value + "]");
    }
}

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 */

package org.elasticsearch.client.license;
import org.elasticsearch.client.Validatable;
import org.elasticsearch.common.Nullable;

public class StartTrialRequest implements Validatable {

    private final boolean acknowledge;
    private final String licenseType;

    public StartTrialRequest() {
        this(false);
    }

    public StartTrialRequest(boolean acknowledge) {
        this(acknowledge, null);
    }

    public StartTrialRequest(boolean acknowledge, @Nullable String licenseType) {
        this.acknowledge = acknowledge;
        this.licenseType = licenseType;
    }

    public boolean isAcknowledge() {
        return acknowledge;
    }

    public String getLicenseType() {
        return licenseType;
    }
}
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 */
package org.elasticsearch.client.license
import org.elasticsearch.client.TimedRequest;

public class DeleteLicenseRequest extends TimedRequest {

}

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 */

package org.elasticsearch.client.license;

public class GetLicenseResponse {

    private String license;

    GetLicenseResponse() {
    }

    public GetLicenseResponse(String license) {
        this.license = license;
    }

    public String getLicenseDefinition() {
        return license;
    }

}

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package org.elasticsearch.client.license;

import org.elasticsearch.client.Validatable;

public class GetLicenseRequest implements Validatable {

    protected boolean local = false;

    public GetLicenseRequest() {
    }

    public boolean isLocal() {
        return local;
    }

    public void setLocal(boolean local) {
        this.local = local;
    }
}

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 */
package org.elasticsearch.client.license;

import org.elasticsearch.client.TimedRequest;

public class PutLicenseRequest extends TimedRequest {

    private String licenseDefinition;
    private boolean acknowledge = false;

    public PutLicenseRequest() {
    }

    public void setLicenseDefinition(String licenseDefinition) {
        this.licenseDefinition = licenseDefinition;
    }

}
public String getLicenseDefinition() {
    return licenseDefinition;
}

public void setAcknowledge(boolean acknowledge) {
    this.acknowledge = acknowledge;
}

public boolean isAcknowledge() {
    return acknowledge;
}

package org.elasticsearch.client.license;
import org.elasticsearch.client.TimedRequest;

public class StartBasicRequest extends TimedRequest {
    private final boolean acknowledge;

    public StartBasicRequest() {
        this(false);
    }

    public StartBasicRequest(boolean acknowledge) {
        this.acknowledge = acknowledge;
    }

    public boolean isAcknowledge() {
        return acknowledge;
    }

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     */
    package org.elasticsearch.client.license;

    import org.elasticsearch.client.TimedRequest;

    public class StartBasicRequest extends TimedRequest {
        private final boolean acknowledge;

        public StartBasicRequest() {
            this(false);
        }

        public StartBasicRequest(boolean acknowledge) {
            this.acknowledge = acknowledge;
        }

        public boolean isAcknowledge() {
            return acknowledge;
        }
    }
package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.client.common.ProtocolUtils;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;

public final class PutLicenseResponse {

    private static final ConstructingObjectParser<PutLicenseResponse, Void> PARSER = new ConstructingObjectParser<"put_license_response", true, (a, v) -> {

        boolean acknowledged = (Boolean) a[0];
        LicensesStatus licensesStatus = LicensesStatus.fromString((String) a[1]);

        @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,

        return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements);
    };

    public PutLicenseResponse(PutLicenseResponse putLicenseResponse) {
        this.putLicenseResponse(putLicenseResponse.acknowledged, putLicenseResponse.licensesStatus,
            putLicenseResponse.acknowledgements);
    }

    public boolean acknowledged() {
        return acknowledged;
    }

    public LicensesStatus licensesStatus() {
        return licensesStatus;
    }

    public @Nullable Map<String, String[]> acknowledgements() {
        return acknowledgements;
    }

    @Override
    public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;
        PutLicenseResponse that = (PutLicenseResponse) o;
        return acknowledged.equals(that.acknowledged) &&
            licensesStatus.equals(that.licensesStatus) &&
            acknowledgements.equals(that.acknowledgements);
    }

    @Override
    public int hashCode() {
        return Objects.hash(acknowledged, licensesStatus, acknowledgements);
    }

    @Override
    public String toString() {
        return "PutLicenseResponse[acknowledged=" + acknowledged + ", licensesStatus=" + licensesStatus + ",
            acknowledgements=" + acknowledgements + "]";
    }

}

import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;

public final class PutLicenseResponse {

    private static final ConstructingObjectParser<PutLicenseResponse, Void> PARSER = new ConstructingObjectParser<"put_license_response", true, (a, v) -> {

        boolean acknowledged = (Boolean) a[0];
        LicensesStatus licensesStatus = LicensesStatus.fromString((String) a[1]);

        @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,

        return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements);
    };

    public PutLicenseResponse(PutLicenseResponse putLicenseResponse) {
        this.putLicenseResponse(putLicenseResponse.acknowledged, putLicenseResponse.licensesStatus,
            putLicenseResponse.acknowledgements);
    }

    public boolean acknowledged() {
        return acknowledged;
    }

    public LicensesStatus licensesStatus() {
        return licensesStatus;
    }

    public @Nullable Map<String, String[]> acknowledgements() {
        return acknowledgements;
    }

    @Override
    public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;
        PutLicenseResponse that = (PutLicenseResponse) o;
        return acknowledged.equals(that.acknowledged) &&
            licensesStatus.equals(that.licensesStatus) &&
            acknowledgements.equals(that.acknowledgements);
    }

    @Override
    public int hashCode() {
        return Objects.hash(acknowledged, licensesStatus, acknowledgements);
    }

    @Override
    public String toString() {
        return "PutLicenseResponse[acknowledged=" + acknowledged + ", licensesStatus=" + licensesStatus + ",
            acknowledgements=" + acknowledgements + "]";
    }

}
Map<String, String[]>> a[2];
if (acknowledgements == null) {
    return new PutLicenseResponse(acknowledged, licensesStatus);
} else {
    return new PutLicenseResponse(acknowledged, licensesStatus, acknowledgements.v1(),
    acknowledgements.v2());
}
}

static {
    PARSER.declareBoolean(constructorArg(), new ParseField("acknowledged"));
    PARSER.declareString(constructorArg(), new ParseField("license_status"));
    PARSER.declareObject(optionalConstructorArg(), (parser, v) -> {
        Map<String, String[]> acknowledgeMessages = new HashMap<>();
        String message = null;
        XContentParser.Token token;
        String currentFieldName = null;
        while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
            if (token == XContentParser.Token.FIELD_NAME) {
                currentFieldName = parser.currentName();
            } else {
                if (currentFieldName == null) {
                    throw new XContentParseException(parser.getTokenLocation(), "expected message header or
                   acknowledgement");
                } else {
                    if ("message".equals(currentFieldName)) {
                        if (token != XContentParser.Token.VALUE_STRING) {
                            throw new XContentParseException(parser.getTokenLocation(), "unexpected message header
                           type");
                        }
                        message = parser.text();
                    } else {
                        if (token != XContentParser.Token.START_ARRAY) {
                            throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement
                           type");
                        }
                        List<String> acknowledgeMessagesList = new ArrayList<>();
                        while (token != XContentParser.Token.END_ARRAY) {
                            if (token != XContentParser.Token.VALUE_STRING) {
                                throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement
                               text");
                            }
                            acknowledgeMessagesList.add(parser.text());
                        }
                        acknowledgeMessages.put(currentFieldName, acknowledgeMessagesList.toArray(new String[0]));
                    }
                }
            }
        }
    });
}
public PutLicenseResponse() {
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status) {
    this(acknowledged, status, null, Collections.<String, String[]>emptyMap());
}

public PutLicenseResponse(boolean acknowledged, LicensesStatus status, String acknowledgeHeader,
                          Map<String, String[]> acknowledgeMessages) {
    this.acknowledged = acknowledged;
    this.status = status;
    this.acknowledgeHeader = acknowledgeHeader;
    this.acknowledgeMessages = acknowledgeMessages;
}

public boolean isAcknowledged() {
    return acknowledged;
}

public LicensesStatus status() {
    return status;
}

public Map<String, String[]> acknowledgeMessages() {
    return acknowledgeMessages;
}

public String acknowledgeHeader() {
    return acknowledgeHeader;
}

public static PutLicenseResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.parse(parser, null);
}

@Override
public boolean equals(Object o) {
}
if (this == o) return true;
if (o == null || getClass() != o.getClass()) return false;
if (!super.equals(o)) return false;
PutLicenseResponse that = (PutLicenseResponse) o;

return status == that.status &&
   ProtocolUtils.equals(acknowledgeMessages, that.acknowledgeMessages) &&
   Objects.equals(acknowledgeHeader, that.acknowledgeHeader);
}

@Override
public int hashCode() {
   return Objects.hash(super.hashCode(), status, ProtocolUtils.hashCode(acknowledgeMessages),
   acknowledgeHeader);
}

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 */
package org.elasticsearch.client.license;

import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import java.io.IOException;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;

public class StartTrialResponse {

    private static final ConstructingObjectParser<StartTrialResponse, Void> PARSER = new ConstructingObjectParser<>
    ("start_trial_response",
     true,
     (Object[] arguments, Void aVoid) -> {
         final boolean acknowledged = (boolean) arguments[0];
         final boolean trialWasStarted = (boolean) arguments[1];
         final String licenseType = (String) arguments[2];
         final String errorMessage = (String) arguments[3];

         @SuppressWarnings("unchecked")
         final Tuple<String, Map<String, String[]>> acknowledgeDetails = (Tuple<String, Map<String, String[]>>)
         arguments[4];

         final String acknowledgeHeader;
         final Map<String, String[]> acknowledgeMessages;

         if (acknowledgeDetails != null) {
             acknowledgeHeader = acknowledgeDetails.v1();
             acknowledgeMessages = acknowledgeDetails.v2();
         } else {
             acknowledgeHeader = null;
             acknowledgeMessages = null;
         }

         return new StartTrialResponse(acknowledged, trialWasStarted, licenseType, errorMessage,
         acknowledgeHeader,
         acknowledgeMessages);
     });

    static {
        PARSER.declareBoolean(constructorArg(), new ParseField("acknowledged"));
        PARSER.declareBoolean(constructorArg(), new ParseField("trial_was_started"));
        PARSER.declareString(optionalConstructorArg(), new ParseField("type"));
        PARSER.declareString(optionalConstructorArg(), new ParseField("error_message"));
        // todo consolidate this parsing with the parsing in PutLicenseResponse
        PARSER.declareObject(optionalConstructorArg(), (parser, aVoid) -> {
            final Map<String, String[]> acknowledgeMessages = new HashMap<>();
            String message = null;

            final Map<String, Object> parsedMap = parser.map();
        });
    }
}
for (Map.Entry<String, Object> entry : parsedMap.entrySet()) {
    if (entry.getKey().equals("message")) {
        if (entry.getValue() instanceof String) {
            message = (String) entry.getValue();
        } else {
            throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement header type");
        }
    } else {
        if (entry.getValue() instanceof List) {
            final List<String> messageStrings = new ArrayList<>();
            @SuppressWarnings("unchecked")
            final List<Object> messageObjects = (List<Object>) entry.getValue();
            for (Object messageObject : messageObjects) {
                if (messageObject instanceof String) {
                    messageStrings.add((String) messageObject);
                } else {
                    throw new XContentParseException(parser.getTokenLocation(), "expected text in acknowledgement message");
                }
            }
            acknowledgeMessages.put(entry.getKey(), messageStrings.toArray(new String[messageStrings.size()]));
        } else {
            throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement message type");
        }
    }
}

if (message == null) {
    throw new XContentParseException(parser.getTokenLocation(), "expected acknowledgement header");
}

return new Tuple<>(message, acknowledgeMessages);
}

public static StartTrialResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.apply(parser, null);
}

private final boolean acknowledged;
private final boolean trialWasStarted;
private final String licenseType;
private final String errorMessage;
private final String acknowledgeHeader;
private final Map<String, String[]> acknowledgeMessages;

public StartTrialResponse(boolean acknowledged,
    boolean trialWasStarted,
    String licenseType,
    String errorMessage,
    String acknowledgeHeader,
    Map<String, String[]> acknowledgeMessages) {
    this.acknowledged = acknowledged;
    this.trialWasStarted = trialWasStarted;
    this.licenseType = licenseType;
    this.errorMessage = errorMessage;
    this.acknowledgeHeader = acknowledgeHeader;
    this.acknowledgeMessages = acknowledgeMessages;
}

/**
 * Returns true if the request that corresponds to this response acknowledged license changes that would occur as a
 * result of starting
 * a trial license
 */
public boolean isAcknowledged() {
    return acknowledged;
}

/**
 * Returns true if a trial license was started as a result of the request corresponding to this response. Returns false
 * if the cluster
 * did not start a trial, or a trial had already been started before the corresponding request was made
 */
public boolean isTrialWasStarted() {
    return trialWasStarted;
}

/**
 * If a trial license was started as a result of the request corresponding to this response (see { @link
 * isTrialWasStarted() }) then
 * returns the type of license that was started on the cluster. Returns null otherwise
 */
public String getLicenseType() {
    return licenseType;
}

/**
 * If a trial license was not started as a result of the request corresponding to this response (see { @link
 * isTrialWasStarted() }) then
* returns a brief message explaining why the trial could not be started. Returns false otherwise
 */
public String getErrorMessage() {
    return errorMessage;
}

/**
 * If the request corresponding to this response did not acknowledge licensing changes that would result from
 * starting a trial license
 * (see { @link #isAcknowledged() }), returns a message describing how the user must acknowledge licensing
 * changes as a result of
 * such a request. Returns null otherwise
 */
public String getAcknowledgeHeader() {
    return acknowledgeHeader;
}

/**
 * If the request corresponding to this response did not acknowledge licensing changes that would result from
 * starting a trial license
 * (see { @link #isAcknowledged() }), returns a map. The map's keys are names of commercial Elasticsearch
 * features, and their values are
 * messages about how those features will be affected by licensing changes as a result of starting a trial license
 */
public Map<String, String[]> getAcknowledgeMessages() {
    return acknowledgeMessages;
}
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package org.elasticsearch.client.license;

/**
 * Status of an X-Pack license.
 */
public enum LicenseStatus {
    ACTIVE("active"),
    INVALID("invalid"),
    EXPIRED("expired");

    private final String label;

    LicenseStatus(String label) {
        this.label = label;
    }

    public String label() {
        return label;
    }

    public static LicenseStatus fromString(String value) {
        switch (value) {
            case "active":
                return ACTIVE;
            case "invalid":
                return INVALID;
            case "expired":
                return EXPIRED;
            default:
                throw new IllegalArgumentException("unknown license status [" + value + "]");
        }
    }
}

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import org.elasticsearch.client.license.
import org.elasticsearch.common.ParseField;
import org.elasticsearch.common.collect.Tuple;
import org.elasticsearch.common.xcontent.ConstructingObjectParser;
import org.elasticsearch.common.xcontent.XContentParseException;
import org.elasticsearch.common.xcontent.XContentParser;
import org.elasticsearch.rest.RestStatus;
import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Objects;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.constructorArg;
import static org.elasticsearch.common.xcontent.ConstructingObjectParser.optionalConstructorArg;
import static org.elasticsearch.common.xcontent.XContentParserUtils.ensureExpectedToken;

public class StartBasicResponse {

    private static final ConstructingObjectParser<StartBasicResponse, Void> PARSER = new
    ConstructingObjectParser<StartBasicResponse, Void>(
        "start_basic_response", true, (a, v) -> {
            boolean basicWasStarted = (Boolean) a[0];
            String errorMessage = (String) a[1];
            if (basicWasStarted) {
                return new StartBasicResponse(StartBasicResponse.Status.GENERATED_BASIC);
            }
            StartBasicResponse.Status status = StartBasicResponse.Status.fromErrorMessage(errorMessage);
            @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,
            Map<String, String[]>>) a[2];
            return new StartBasicResponse(status, acknowledgements.v2(), acknowledgements.v1());
        });

    private static final ConstructingObjectParser<StartBasicResponse, Void> PARSER = new
    ConstructingObjectParser<StartBasicResponse, Void>(
        "start_basic_response", true, (a, v) -> {
            boolean basicWasStarted = (Boolean) a[0];
            String errorMessage = (String) a[1];
            if (basicWasStarted) {
                return new StartBasicResponse(StartBasicResponse.Status.GENERATED_BASIC);
            }
            StartBasicResponse.Status status = StartBasicResponse.Status.fromErrorMessage(errorMessage);
            @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,
            Map<String, String[]>>) a[2];
            return new StartBasicResponse(status, acknowledgements.v2(), acknowledgements.v1());
        });

    public static ConstructingObjectParser<StartBasicResponse, Void> PARSER {
        private static final ConstructingObjectParser<StartBasicResponse, Void> PARSER = new
        ConstructingObjectParser<StartBasicResponse, Void>(
            "start_basic_response", true, (a, v) -> {
                boolean basicWasStarted = (Boolean) a[0];
                String errorMessage = (String) a[1];
                if (basicWasStarted) {
                    return new StartBasicResponse(StartBasicResponse.Status.GENERATED_BASIC);
                }
                StartBasicResponse.Status status = StartBasicResponse.Status.fromErrorMessage(errorMessage);
                @SuppressWarnings("unchecked") Tuple<String, Map<String, String[]>> acknowledgements = (Tuple<String,
                Map<String, String[]>>) a[2];
                return new StartBasicResponse(status, acknowledgements.v2(), acknowledgements.v1());
            });

    }
static {
    declareBoolean(constructorArg(), new ParseField("basic_was_started"));
    declareString(optionalConstructorArg(), new ParseField("error_message"));
    declareObject(optionalConstructorArg(), (parser, v) -> {
        acknowledgeMessages = new HashMap<>();
        message = null;
        XContentParser.Token token;
        currentFieldName = null;
        while ((token = parser.nextToken()) != XContentParser.Token.END_OBJECT) {
            if (token == XContentParser.Token.FIELD_NAME) {
                currentFieldName = parser.currentName();
            } else {
                if (currentFieldName == null) {
                    throw new XContentParseException(parser.getTokenLocation(), "expected message header or
                    acknowledgement");
                } else {
                    if (new ParseField("message").getPreferredName().equals(currentFieldName)) {
                        ensureExpectedToken(XContentParser.Token.VALUE_STRING, token,
                        parser::getTokenLocation);
                        message = parser.text();
                    } else {
                        if (token != XContentParser.Token.START_ARRAY) {
                            throw new XContentParseException(parser.getTokenLocation(), "unexpected acknowledgement
                            type");
                        }
                        List<String> acknowledgeMessagesList = new ArrayList<>();
                        while (((token = parser.nextToken()) != XContentParser.Token.END_ARRAY) {
                            acknowledgeMessagesList.add(parser.text());
                        }
                        acknowledgeMessages.put(currentFieldName, acknowledgeMessagesList.toArray(new String[0]));
                    }
                }
            }
            return new Tuple<>(message, acknowledgeMessages);
        }
        new ParseField("acknowledge");
    },
    new ParseField("acknowledge");
}

private Map<String, String[]> acknowledgeMessages;
private String acknowledgeMessage;

enum Status {
    GENERATED_BASIC(true, null, RestStatus.OK),
    ALREADY_USING_BASIC(false, "Operation failed: Current license is basic.", RestStatus.FORBIDDEN),
private final boolean isBasicStarted;
private final String errorMessage;
private final RestStatus restStatus;

Status(boolean isBasicStarted, String errorMessage, RestStatus restStatus) {
    this.isBasicStarted = isBasicStarted;
    this.errorMessage = errorMessage;
    this.restStatus = restStatus;
}

String getErrorMessage() {
    return errorMessage;
}

boolean isBasicStarted() {
    return isBasicStarted;
}

static StartBasicResponse.Status fromErrorMessage(final String errorMessage) {
    final StartBasicResponse.Status[] values = StartBasicResponse.Status.values();
    for (StartBasicResponse.Status status : values) {
        if (Objects.equals(status.errorMessage, errorMessage)) {
            return status;
        }
    }
    throw new IllegalArgumentException("No status for error message [" + errorMessage + "]");
}

private StartBasicResponse.Status status;

public StartBasicResponse() {
}

StartBasicResponse(StartBasicResponse.Status status) {
    this(status, Collections.emptyMap(), null);
}

StartBasicResponse(StartBasicResponse.Status status,
                        Map<String, String[]> acknowledgeMessages, String acknowledgeMessage) {
    this.status = status;
    this.acknowledgeMessages = acknowledgeMessages;
    this.acknowledgeMessage = acknowledgeMessage;
}

public boolean isAcknowledged() {

return status != StartBasicResponse.Status.NEED_ACKNOWLEDGEMENT;

public boolean isBasicStarted() {
    return status.isBasicStarted;
}

public String getErrorMessage() {
    return status.errorMessage;
}

public String getAcknowledgeMessage() {
    return acknowledgeMessage;
}

public Map<String, String[]> getAcknowledgeMessages() {
    return acknowledgeMessages;
}

public static StartBasicResponse fromXContent(XContentParser parser) throws IOException {
    return PARSER.parse(parser, null);
}

1.1052 netty-handler-proxy 4.1.23
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1.1053 x-net 3.1.9-2.el7

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1.1054 mailx 12.5 19.el7

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Network Working Group    H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational   M. Bellare
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IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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==========================================================================

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1.1056 grub 2.02 0.80.el7.centos

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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: [PATCH] arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)
diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe40f71..eabfd99b296 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
 */

#include <grub/symbol.h>
+#include <grub/dl.h>
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Version 3, 29 June 2007

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From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to EFI system table.
diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109ee1..8f691e0e2d1 100644
--- a/grub-core/loader/i386/bsd.c
+++ b/grub-core/loader/i386/bsd.c
@@ -1145,6 +1145,14 @@ grub_netbsd_boot (void)
    if (err)
    return err;

+#ifdef GRUB_MACHINE_EFI
+   err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
+                        &grub_efi_system_table,
+                        sizeof (grub_efi_system_table));
+   if (err)
+      return err;
+#endif
+
{
    struct bsd_tag *tag;
    tag_buf_len = 0;

diff --git a/include/grub/i386/netbsd_bootinfo.h b/include/grub/i386/netbsd_bootinfo.h
index e48c19b4089..9b4f4604103 100644
--- a/include/grub/i386/netbsd_bootinfo.h
+++ b/include/grub/i386/netbsd_bootinfo.h
@@ -58,6 +58,8 @@
    #define NETBSD_BTINFO_BOOTWEDGE       10
    #define NETBSD_BTINFO_MODULES         11
    #define NETBSD_BTINFO_FRAMEBUF       12
+    #define NETBSD_BTINFO_USERCONFCOMMANDS 13
+    #define NETBSD_BTINFO_EFI           14

    struct grub_netbsd_bootinfo
    {
@@ -146,4 +148,9 @@ grunt_netbsd_btinfo_framebuf
    #define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+struct grub_netbsd_btinfo_efi
+{
+    void *pa_systbl; /* Physical address of the EFI System Table */
+};
+}
+#endif

diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
2014-06-21  Stephane Rochoy <sheda>
+
+* grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+EFI system table.
+
2014-06-21  Stephane Rochoy <sheda>

* grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show
From 0000000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---
grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)
diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6ff82cfc..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/commands/cacheinfo.c
@@ -23,6 +23,8 @@
 #include <grub/i18n.h>
 #include <grub/disk.h>

+GRUB_MOD_LICENSE("GPLv3+");
+
 static grub_err_t

 grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),
    int argc __attribute__ ((unused)),

1.1057 guice 4.2.2
1.1057.1 Available under license:

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

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other_arch = True
else:
    continue
pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0', pkg['version'], pkg['release'])
if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
    continue
-    ret.append((pkgtup, notice))
+    if other_arch:
+        other_arch_list.append((pkgtup, notice))
+    else:
+        ret.append((pkgtup, notice))
+        notices.add(notice)
+    for pkgtup, notice in other_arch_list:
+        if notice not in notices:
+            ret.append((pkgtup, notice))
ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
return ret

import Errors
import logginglevels
import rpmUtils.miscutils
+from rpmUtils.arch import ArchStorage

def safe_iterparse(filename, logger=None):

def __init__(self, elem=None, repoid=None, vlogger=None):
    self._md = {
        'from': '',
        'type': '',
    }
    if elem:
        self._parse(elem)
    self._repoid = repoid
    self._vlogger = vlogger

    self._repoid = repoid
    self._vlogger = vlogger
def __getitem__(self, item):
    """ Allows scriptable metadata access (ie: un['update_id']). """
    if type(item) is int:
        return un[item]
    if type(item) is str:
        return un[item]
    else:
        return un[item]

+ def _rid(un):
+     if hasattr(un, '_repoid') and un._repoid is not None:
+         return un._repoid
+     else:
+         return '<unknown>'
+
+ def _log_failure(data):
+     """Log the mismatched data similarly to conflict markers in git."""
+     if self._vlogger is None:
+         return
+     msg = _('Duplicate of %s differs in some fields:
')
+     msg += '<<<<<<< %s:%s
' % (_rid(other), data)
+     msg += '%r
=======
%r
' % (other._md[data], self._md[data])
+     msg += '>>>>>>> %s:%s' % (_rid(self), data)
+     # --verbose mode enables this
+     self._vlogger.log(logginglevels.DEBUG_3, msg)
+
+     if not other or not hasattr(other, '_md'):
+         return False
+
@ -113.6 +134.7 @@ class UpdateNotice(object):
    if data == 'status': # FIXME: See below...
        continue
        if self._md[data] != other._md[data]:
            _log_failure(data)
            return False
    # FIXME: Massive hack, Fedora is really broken and gives status=stable
    # and status=testing for updateinfo notices, just depending on which
    # status is testing for updateinfo notices, just depending on which
    @ -120.8 +142.10 @@ class UpdateNotice(object):
        data = 'status'
        if self._md[data] != other._md[data]:
            if self._md[data] not in ('stable', 'testing'):
                _log_failure(data)
                return False
            if other._md[data] not in ('stable', 'testing'):
                _log_failure(data)
                return False
        # They are both really "stable" ...
        self._md[data] = 'stable'
@@ -574,7 +598,7 @@ class UpdateMetadata(object):
     for event, elem in safe_iterparse(infile, logger=self._logger):
         if elem.tag == 'update':
             try:
-                un = UpdateNotice(elem)
+                un = UpdateNotice(elem, repoid, self._vlogger)
             except UpdateNoticeException, e:
                 msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
                 if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
             msg = _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'],
                 _rid(repoid))
             if not have_dup:
                 msg += _("You should report this problem to the owner of the %s repository.") % _rid(repoid, "%s")
                 + msg += _("If you are the owner, consider re-running the same command with --verbose to see the '
                 + 'exact data that caused the conflict."")
                 have_dup = True
                 if self._vlogger:
                     self._vlogger.warn("%s", msg)

1.1061 libxi 1.1.3 2.1.el7
1.1061.1 Available under license :

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1.1063 kexec-tools 2.0.15 33.el7

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

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  * /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources.jar/org/objectweb/asm/tree/analysis/BasicValue.java
  * /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources.jar/org/objectweb/asm/ClassReader.java
  * /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources.jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
  * /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources.jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
  * /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources.jar/org/objectweb/asm/util/Printer.java
  * /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources.jar/org/objectweb/asm/FieldWriter.java

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jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/MethodWriter.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/commons/FieldRemapper.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/tree/InsnList.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/util/ASMifier.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/Opcodes.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/Context.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/Label.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/commons/AnnotationRemapper.java
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* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
  jar/org/objectweb/asm/tree/package.html
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
  jar/org/objectweb/asm/package.html
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
  jar/org/objectweb/asm/tree/analysis/package.html
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
  jar/org/objectweb/asm/commons/package.html
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   */
/**
   * Constructs a new LocalVariableAnnotationNode. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * 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/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
  jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/xml/Processor.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
jar/org/objectweb/asm/xml/ASMContentHandler.java

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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):
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/**
 * Creates a new {AnalyzerAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
 * version.
 *
 * @param owner
 * the owner's class name.
 *
 * @param access
 * the method's access flags (see {Opcodes}).
 *
 * @param name
 * the method's name.
 *
 * @param desc
 * the method's descriptor (see {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/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5.1-sources-
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[])<br>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>.
 *
 * @param throws
 * If a subclass calls this constructor.
 */

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* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
  jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
  jar/org/objectweb/asm/optimizer/shrink-annotations.properties
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
  jar/org/objectweb/asm/optimizer/shrink.properties
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
  jar/org/objectweb/asm/optimizer/shrink-writer.properties
* /opt/ws_local/PERMITS_SQL/1020252667_1594234827.74/0/asm-debug-all-5-1-sources-
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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.
*/

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1.1067 annotations 13.0

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Replaceable is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the Replaceable API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

Replaceable specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

Replaceable also includes API to access characters in the string: length(), charAt(), char32At(), and extractBetween().

For a subclass to support metadata, typical behavior of replace() is the following:

- Set the metadata of the new text to the metadata of the first character replaced
- If no characters are replaced, use the metadata of the previous character
- If there is no previous character (i.e. start == 0), use the following character
- If there is no following character (i.e. the replaceable was empty), use default metadata
- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata
If this is not the behavior, the subclass should document any differences.

Note: This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.

@see Replaceable
@author Alan Liu
@stable ICU 2.0

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 */

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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) {
    }

    public final String getName() {
        return null;
    }

    public void checkGuard(Object obj) throws SecurityException {
    }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}
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/*
 * ALSA lisp implementation
 * Copyright (c) 2003 by Jaroslav Kysela <perex@perex.cz>
 *
 * Based on work of Sandro Sigala (slisp-1.2)
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 */

#include <assert.h>

#include <limits.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>
#include <math.h>
#include <err.h>
# define alisp_seq_iterator alisp_object

#include "local.h"
#include "alisp.h"
#include "alisp_local.h"

struct alisp_object alsalisp_nil;
struct alisp_object alsalisp_t;

/* parser prototypes */
static struct alisp_object * parse_object(struct alisp_instance *instance, int havetoken);
static void princ_cons(snd_output_t *out, struct alisp_object * p);
static void princ_object(snd_output_t *out, struct alisp_object * p);
static struct alisp_object * eval(struct alisp_instance *instance, struct alisp_object * p);

/* functions */
static struct alisp_object *F_eval(struct alisp_instance *instance, struct alisp_object *);
static struct alisp_object *F_progn(struct alisp_instance *instance, struct alisp_object *);
static struct alisp_object *F_funcall(struct alisp_instance *instance, struct alisp_object *);

/* others */
static int alisp_include_file(struct alisp_instance *instance, const char *filename);

/*
 * object handling
*/

static int get_string_hash(const char *s)
{
    int val = 0;
    if (s == NULL)
        return val;
    while (*s)
        val += *s++;
    return val & ALISP_OBJ_PAIR_HASH_MASK;
}

static void nomem(void)
{
    SNDERR("alisp: no enough memory");
}

static void lisp_verbose(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;

    if (!instance->verbose)
        return;
}

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va_start(ap, fmt);
snd_output_Printf(instance->vout, "alisp: ");
snd_output_vprintf(instance->vout, fmt, ap);
snd_output_putchar(instance->vout, '\n');
va_end(ap);
}

static void lisp_error(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;
    if (!instance->warning)
        return;
    va_start(ap, fmt);
    snd_output_Printf(instance->eout, "alisp error: ");
    snd_output_vprintf(instance->eout, fmt, ap);
    snd_output_putchar(instance->eout, '\n');
    va_end(ap);
}

static void lisp_warn(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;
    if (!instance->warning)
        return;
    va_start(ap, fmt);
    snd_output_Printf(instance->wout, "alisp warning: ");
    snd_output_vprintf(instance->wout, fmt, ap);
    snd_output_putchar(instance->wout, '\n');
    va_end(ap);
}

static void lisp_debug(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;
    if (!instance->debug)
        return;
    va_start(ap, fmt);
    snd_output_Printf(instance->dout, "alisp debug: ");
    snd_output_vprintf(instance->dout, fmt, ap);
    snd_output_putchar(instance->dout, '\n');
    va_end(ap);
}

static struct alisp_object * new_object(struct alisp_instance *instance, int type)
{


struct alisp_object * p;

if (list_empty(&instance->free_objs_list)) {
    p = (struct alisp_object *)malloc(sizeof(struct alisp_object));
    if (p == NULL) {
        nomem();
        return NULL;
    }
    lisp_debug(instance, "allocating cons %p", p);
} else {
    p = (struct alisp_object *)instance->free_objs_list.next;
    list_del(&p->list);
    instance->free_objs--;
    lisp_debug(instance, "recycling cons %p", p);
}

instance->used_objs++;

alisp_set_type(p, type);
alisp_set_refs(p, 1);
if (type == ALISP_OBJ_CONS) {
    p->value.c.car = &alsa_lisp_nil;
    p->value.c.cdr = &alsa_lisp_nil;
    list_add(&p->list, &instance->used_objs_list[0][ALISP_OBJ_CONS]);
}

if (instance->used_objs + instance->free_objs > instance->max_objs)
    instance->max_objs = instance->used_objs + instance->free_objs;

return p;
}

static void free_object(struct alisp_object * p)
{
    switch (alisp_get_type(p)) {
    case ALISP_OBJ_STRING:
    case ALISP_OBJ_IDENTIFIER:
        free(p->value.s);
        alisp_set_type(p, ALISP_OBJ_INTEGER);
        break;
    default:
        break;
    }
}

static void delete_object(struct alisp_instance *instance, struct alisp_object * p)
{
    if (p == NULL || p == &alsa_lisp_nil || p == &alsa_lisp_t)
return;
if (alisp_compare_type(p, ALISP_OBJ_NIL) ||
    alisp_compare_type(p, ALISP_OBJ_T))
    return;
assert(alisp_get_refs(p) > 0);
list_debug(instance, "delete cons %p (type = %i, refs = %i) (s = '%s')", p, alisp_get_type(p), alisp_get_refs(p),
alisp_compare_type(p, ALISP_OBJ_STRING) ||
alisp_compare_type(p, ALISP_OBJ_IDENTIFIER) ? p->value.s : "???");
if (alisp_dec.refs(p))
    return;
list.del(&p->list);
instance->used_objs--;
free_object(p);
if (instance->free_objs >= ALISP_FREE_OBJ_POOL) {
    list_debug(instance, "freed cons %p", p);
    free(p);
    return;
}
list.debug(instance, "moved cons %p to free list", p);
list.add(&p->list, &instance->free_objs_list);
instance->free_objs++;
}

static void delete_tree(struct alisp_instance *instance, struct alisp_object * p)
{
    if (p == NULL)
        return;
    if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
        delete_tree(instance, p->value.c.car);
        delete_tree(instance, p->value.c.cdr);
    }
    delete_object(instance, p);
}

static struct alisp_object * incref_object(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * p)
{
    if (p == NULL || p == &alsa_lisp_nil || p == &alsa_lisp_t)
        return p;
    if (alisp_get.refs(p) == ALISP_MAX_REFS) {
        assert(0);
        fprintf(stderr, "OOPS: alsa lisp: incref fatal error\n");
        exit(EXIT_FAILURE);
    }
    alisp_inc.refs(p);
    return p;
}
static struct alisp_object * incref_tree(struct alisp_instance *instance, struct alisp_object * p)
{
    if (p == NULL)
        return NULL;
    if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
        incref_tree(instance, p->value.c.car);
        incref_tree(instance, p->value.c.cdr);
    }
    return incref_object(instance, p);
}

/* Function not used yet. Leave it commented out until we actually use it to */
* avoid compiler complaints */
#if 0
static struct alisp_object * incref_tree_explicit(struct alisp_instance *instance, struct alisp_object * p, struct alisp_object * e)
{
    if (p == NULL)
        return NULL;
    if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
        if (e == p) {
            incref_tree(instance, p->value.c.car);
            incref_tree(instance, p->value.c.cdr);
        } else {
            incref_tree_explicit(instance, p->value.c.car, e);
            incref_tree_explicit(instance, p->value.c.cdr, e);
        }
    } else {
        incref_tree_explicit(instance, p->value.c.car, e);
        incref_tree_explicit(instance, p->value.c.cdr, e);
    }
    if (e == p)
        return incref_object(instance, p);
    return p;
}
#endif

static void free_objects(struct alisp_instance *instance)
{
    struct list_head *pos, *pos1;
    struct alisp_object * p;
    struct alisp_object_pair * pair;
    int i, j;

    for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {
        list_for_each_safe(pos, pos1, &instance->setobjs_list[i]) {
            pair = list_entry(pos, struct alisp_object_pair, list);
            lisp_debug(instance, "freeing pair: '%s' -> %p", pair->name, pair->value);
            delete_tree(instance, pair->value);
            free((void *)pair->name);
            free(pair);
        }
    }

    list_for_each_safe(pos, pos1, &instance->mem_pool) {
        if (pos) {
            lisp_debug(instance, "freeing pool: %p", pos);
            delete_tree(instance, pos);
            free((void *)pos);
        }
    }
}

static void free_objects(struct alisp_instance *instance)
{
    struct list_head *pos, *pos1;
    struct alisp_object * p;
    struct alisp_object_pair * pair;
    int i, j;

    for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {
        list_for_each_safe(pos, pos1, &instance->setobjs_list[i]) {
            pair = list_entry(pos, struct alisp_object_pair, list);
            lisp_debug(instance, "freeing pair: '%s' -> %p", pair->name, pair->value);
            delete_tree(instance, pair->value);
            free((void *)pair->name);
            free(pair);
        }
    }

    list_for_each_safe(pos, pos1, &instance->mem_pool) {
        if (pos) {
            lisp_debug(instance, "freeing pool: %p", pos);
            delete_tree(instance, pos);
            free((void *)pos);
        }
    }
}
for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++)
for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++) {
    list_for_each_safe(pos, pos1, &instance->used_objs_list[i][j]) {
        p = list_entry(pos, struct alisp_object, list);
        lisp_warn(instance, "object %p is still referenced %i times!", p, alisp_get_refs(p));
        #if 0
            snd_output_printf(instance->wout, ">>>> ");
            prin object(instance->wout, p);
            snd_output_printf(instance->wout, " <<<< 
        #endif
        if (alisp_get_refs(p) > 0)
            alisp_set_refs(p, 1);
            delete_object(instance, p);
    }
}
list_for_each_safe(pos, pos1, &instance->free_objs_list) {
    p = list_entry(pos, struct alisp_object, list);
    list_del(&p->list);
    free(p);
    lisp_debug(instance, "freed (all) cons %p", p);
}

static struct alisp_object * search_object_identifier(struct alisp_instance *instance, const char *s) {
    struct list_head * pos;
    struct alisp_object * p;

    list_for_each(pos, &instance->used_objs_list[get_string_hash(s)][ALISP_OBJ_IDENTIFIER]) {
        p = list_entry(pos, struct alisp_object, list);
        if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
            continue;
        if (!strcmp(p->value.s, s))
            return incref_object(instance, p);
    }

    return NULL;
}

static struct alisp_object * search_object_string(struct alisp_instance *instance, const char *s) {
    struct list_head * pos;
    struct alisp_object * p;

    list_for_each(pos, &instance->used_objs_list[get_string_hash(s)][ALISP_OBJ_STRING]) {
        p = list_entry(pos, struct alisp_object, list);
    }

    return NULL;
}
if (!strcmp(p->value.s, s)) {
    if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
        continue;
    return incref_object(instance, p);
}

return NULL;
}

static struct alisp_object * search_object_integer(struct alisp_instance *instance, long in)
{
    struct list_head * pos;
    struct alisp_object * p;

    list_for_each(pos, &instance->used_objs_list[in & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_INTEGER]) {
        p = list_entry(pos, struct alisp_object, list);
        if (p->value.i == in) {
            if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
                continue;
            return incref_object(instance, p);
        }
    }

    return NULL;
}

static struct alisp_object * search_object_float(struct alisp_instance *instance, double in)
{
    struct list_head * pos;
    struct alisp_object * p;

    list_for_each(pos, &instance->used_objs_list[(long)in & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_FLOAT]) {
        p = list_entry(pos, struct alisp_object, list);
        if (p->value.i == in) {
            if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
                continue;
            return incref_object(instance, p);
        }
    }

    return NULL;
}

static struct alisp_object * search_object_pointer(struct alisp_instance *instance, const void *ptr)
{
struct list_head * pos;
struct alisp_object * p;

list_for_each(pos, &instance->used_objs_list[(long)ptr & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_POINTER]) {
p = list_entry(pos, struct alisp_object, list);
if (p->value.ptr == ptr) {
if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
    continue;
return incref_object(instance, p);
}
}

return NULL;
}

static struct alisp_object * new_integer(struct alisp_instance *instance, long value)
{
struct alisp_object * obj;

obj = search_object_integer(instance, value);
if (obj != NULL)
    return obj;
obj = new_object(instance, ALISP_OBJ_INTEGER);
if (obj) {
    list_add(&obj->list, &instance->used_objs_list[(value & ALISP_OBJ_PAIR_HASH_MASK)[ALISP_OBJ_INTEGER]]);
    obj->value.i = value;
}
return obj;
}

static struct alisp_object * new_float(struct alisp_instance *instance, double value)
{
struct alisp_object * obj;

obj = search_object_float(instance, value);
if (obj != NULL)
    return obj;
obj = new_object(instance, ALISP_OBJ_FLOAT);
if (obj) {
    list_add(&obj->list, &instance->used_objs_list[(long)value & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_FLOAT]);
    obj->value.f = value;
}
return obj;
}
static struct alisp_object * new_string(struct alisp_instance *instance, const char *str)
{
    struct alisp_object * obj;

    obj = search_object_string(instance, str);
    if (obj != NULL)
        return obj;
    obj = new_object(instance, ALISP_OBJ_STRING);
    if (obj)
        list_add(&obj->list, &instance->used_objs_list[get_string_hash(str)][ALISP_OBJ_STRING]);
    if (obj && (obj->value.s = strdup(str)) == NULL) {
        delete_object(instance, obj);
        nomem();
        return NULL;
    }
    return obj;
}

static struct alisp_object * new_identifier(struct alisp_instance *instance, const char *id)
{
    struct alisp_object * obj;

    obj = search_object_identifier(instance, id);
    if (obj != NULL)
        return obj;
    obj = new_object(instance, ALISP_OBJ_IDENTIFIER);
    if (obj)
        list_add(&obj->list, &instance->used_objs_list[get_string_hash(id)][ALISP_OBJ_IDENTIFIER]);
    if (obj && (obj->value.s = strdup(id)) == NULL) {
        delete_object(instance, obj);
        nomem();
        return NULL;
    }
    return obj;
}

static struct alisp_object * new_pointer(struct alisp_instance *instance, const void *ptr)
{
    struct alisp_object * obj;

    obj = search_object_pointer(instance, ptr);
    if (obj != NULL)
        return obj;
    obj = new_object(instance, ALISP_OBJ_POINTER);
    if (obj)
        list_add(&obj->list, &instance->used_objs_list[(long)ptr & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_POINTER]);
    obj->value.ptr = ptr;
}
static struct alisp_object * new_cons_pointer(struct alisp_instance * instance, const char *ptr_id, void *ptr)
{
    struct alisp_object * lexpr;

    if (ptr == NULL)
        return &alsa_lisp_nil;
    lexpr = new_object(instance, ALISP_OBJ_CONS);
    if (lexpr == NULL)
        return NULL;
    lexpr->value.c.car = new_string(instance, ptr_id);
    if (lexpr->value.c.car == NULL)
        goto __end;
    lexpr->value.c.cdr = new_pointer(instance, ptr);
    if (lexpr->value.c.cdr == NULL) {
        delete_object(instance, lexpr->value.c.car);
        __end:
        delete_object(instance, lexpr);
        return NULL;
    }
    return lexpr;
}

void alsa_lisp_init_objects(void) __attribute__ ((constructor));

void alsa_lisp_init_objects(void)
{
    memset(&alsa_lisp_nil, 0, sizeof(alsa_lisp_nil));
    alisp_set_type(&alsa_lisp_nil, ALISP_OBJ_NIL);
    INIT_LIST_HEAD(&alsa_lisp_nil.list);
    memset(&alsa_lisp_t, 0, sizeof(alsa_lisp_t));
    alisp_set_type(&alsa_lisp_t, ALISP_OBJ_T);
    INIT_LIST_HEAD(&alsa_lisp_t.list);
}

/*
 * lexer
 */

static int xgetc(struct alisp_instance *instance)
{
    instance->charno++;
    if (instance->lex_bufp > instance->lex_buf)
        return *--(instance->lex_bufp);
    return snd_input_getc(instance->in);
}
static inline void xungetc(struct alisp_instance *instance, int c)
{
  *(instance->lex_bufp)++ = c;
  instance->charno--;
}

static int init_lex(struct alisp_instance *instance)
{
  instance->charno = instance->lineno = 1;
  instance->token_buffer_max = 10;
  if ((instance->token_buffer = (char *)malloc(instance->token_buffer_max)) == NULL) {
    nomem();
    return -ENOMEM;
  }
  instance->lex_bufp = instance->lex_buf;
  return 0;
}

static void done_lex(struct alisp_instance *instance)
{
  free(instance->token_buffer);
}

static char * extend_buf(struct alisp_instance *instance, char *p)
{
  int off = p - instance->token_buffer;

  instance->token_buffer_max += 10;
  instance->token_buffer = (char *)realloc(instance->token_buffer, instance->token_buffer_max);
  if (instance->token_buffer == NULL) {
    nomem();
    return NULL;
  }

  return instance->token_buffer + off;
}

static int gettoken(struct alisp_instance *instance)
{
  char *p;
  int c;

  for (;;) {
    c = xgetc(instance);
    switch (c) {
      case 'n':
++instance->lineno;
break;

case ':': case '\f': case '\t': case '\v': case '\r':
break;

case ':':
    /* Comment: "":"\n" */
    while ((c = xgetc(instance)) != '\n' && c != EOF)
        ++instance->lineno;
    break;

case '?':
    /* Character: "?" */
    c = xgetc(instance);
    sprintf(instance->token_buffer, "%d", c);
    return instance->thistoken = ALISP_INTEGER;

case '-':
    /* Minus sign: ".-" */
    c = xgetc(instance);
    if (!isdigit(c)) {
        xungetc(instance, c);
        c = '-';
        goto got_id;
    }
    xungetc(instance, c);
    c = '-';
    /* FALLTHRU */

case '0':
case '1': case '2': case '3':
case '4': case '5': case '6':
case '7': case '8': case '9':
    /* Integer: \[0-9\]+ */
p = instance->token_buffer;
    instance->thistoken = ALISP_INTEGER;
    do {
        __ok:
        if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
            p = extend_buf(instance, p);
            if (p == NULL)
                return instance->thistoken = EOF;
        }
        *p++ = c;
        c = xgetc(instance);
    }
if (c == '.' && instance->thistoken == ALISP_INTEGER) {
c = xgetc(instance);
xungetc(instance, c);
if (isdigit(c)) {
instance->thistoken = ALISP_FLOAT;
c = '.';
goto __ok;
} else {
c = '.';
}
} else if (c == 'e' && instance->thistoken == ALISP_FLOAT) {
c = xgetc(instance);
if (isdigit(c)) {
instance->thistoken = ALISP_FLOATE;
goto __ok;
}
}
} while (isdigit(c));
xungetc(instance, c);
*p = '\0';
return instance->thistoken;
got_id:
case '!': case '_': case '+': case '*': case '/': case '%':
case '<': case '>': case '=': case '&':
case 'a': case 'b': case 'c': case 'd': case 'e': case 'f':
case 'g': case 'h': case 'i': case 'j': case 'k': case 'l':
case 'm': case 'n': case 'o': case 'p': case 'q': case 'r':
case 's': case 't': case 'u': case 'v': case 'w': case 'x':
case 'y': case 'z':
case 'A': case 'B': case 'C': case 'D': case 'E': case 'F':
case 'G': case 'H': case 'I': case 'J': case 'K': case 'L':
case 'M': case 'N': case 'O': case 'P': case 'Q': case 'R':
case 'S': case 'T': case 'U': case 'V': case 'W': case 'X':
case 'Y': case 'Z':
/* Identifier: [!-/+*%<>=&a-zA-Z_][-/+*%<>=&a-zA-Z_0-9]* */
p = instance->token_buffer;
do {
if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
p = extend_buf(instance, p);
if (p == NULL)
return instance->thistoken = EOF;
}
*p++ = c;
c = xgetc(instance);
} while (isalnum(c) || strchr("!_-+*/%<>=&", c) != NULL);
xungetc(instance, c);
*p = '\0';

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return instance->thistoken = ALISP_IDENTIFIER;

case '"':
  /* String: \"\(^\w+\)\" */
p = instance->token_buffer;
while ((c = xgetc(instance)) != '"' && c != EOF) {
  if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
    p = extend_buf(instance, p);
    if (p == NULL)
      return instance->thistoken = EOF;
  }
  if (c == '\') {
    c = xgetc(instance);
    switch (c) {
      case '\n': ++instance->lineno; break;
      case '\a': *p++ = '\a'; break;
      case '\b': *p++ = '\b'; break;
      case '\f': *p++ = '\f'; break;
      case '\n': *p++ = '\n'; break;
      case '\r': *p++ = '\r'; break;
      case '\t': *p++ = '\t'; break;
      case '\v': *p++ = '\v'; break;
      default: *p++ = c;
    }
  } else {
    if (c == '\n')
      ++instance->lineno;
    *p++ = c;
  }
  *p = '\0';
return instance->thistoken = ALISP_STRING;
}

default:
return instance->thistoken = c;
}
}

/*
 * parser
*/

static struct alisp_object * parse_form(struct alisp_instance *instance)
{
  int thistoken;
  struct alisp_object * p, * first = NULL, * prev = NULL;
while ((thistoken = gettoken(instance)) != ')' && thistoken != EOF) {
/*
 * Parse a dotted pair notation.
*/
if (thistoken == '.') {
    gettoken(instance);  
    if (prev == NULL) {
        lisp_error(instance, "unexpected ".");
        __err:
        delete_tree(instance, first);
        return NULL;
    }
    prev->value.c.cdr = parse_object(instance, 1);
    if (prev->value.c.cdr == NULL)
        goto __err;
    if ((thistoken = gettoken(instance)) != ')') {
        lisp_error(instance, "expected ")");
        goto __err;
    }
    break;
}

p = new_object(instance, ALISP_OBJ_CONS);
if (p == NULL)
    goto __err;

if (first == NULL)
    first = p;
if (prev != NULL)
    prev->value.c.cdr = p;

p->value.c.car = parse_object(instance, 1);
if (p->value.c.car == NULL)
    goto __err;

prev = p;
}

if (first == NULL)
    return &alsa_lisp_nil;
else
    return first;
}

static struct alisp_object * quote_object(struct alisp_instance *instance, struct alisp_object * obj) {
    struct alisp_object * p;
if (obj == NULL)
goto __end1;

p = new_object(instance, ALISP_OBJ_CONS);
if (p == NULL)
goto __end1;

p->value.c.car = new_identifier(instance, "quote");
if (p->value.c.car == NULL)
goto __end;

p->value.c.cdr = new_object(instance, ALISP_OBJ_CONS);
if (p->value.c.cdr == NULL) {
    delete_object(instance, p->value.c.car);
    __end:
    delete_object(instance, p);
    __end1:
    delete_tree(instance, obj);
    return NULL;
}

p->value.c.cdr->value.c.car = obj;
return p;

}

static inline struct alisp_object * parse_quote(struct alisp_instance *instance)
{
    return quote_object(instance, parse_object(instance, 0));
}

static struct alisp_object * parse_object(struct alisp_instance *instance, int havetoken)
{
    int thistoken;
    struct alisp_object * p = NULL;

    if (!havetoken)
        thistoken = gettoken(instance);
    else
        thistoken = instance->thistoken;

    switch (thistoken) {
    case EOF:
        break;
    case '(': 
        p = parse_form(instance);
        break;
    case 'v':
        p = parse_quote(instance);
        break;
    }
case ALISP_IDENTIFIER:
if (!strcmp(instance->token_buffer, "t"))
p = &alsa_lisp_t;
else if (!strcmp(instance->token_buffer, "nil"))
p = &alsa_lisp_nil;
else {
p = new_identifier(instance, instance->token_buffer);
}
break;
case ALISP_INTEGER: {
p = new_integer(instance, atol(instance->token_buffer));
break;
}
case ALISP_FLOAT:
case ALISP_FLOATE: {
p = new_float(instance, atof(instance->token_buffer));
break;
}
case ALISP_STRING:
p = new_string(instance, instance->token_buffer);
break;
default:
lisp_warn(instance, "%d:%d: unexpected character `\%c'", instance->lineno, instance->charno, thistoken);
break;
}
return p;
}

/*
* object manipulation
*/

static struct alisp_object_pair * set_object_direct(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * value)
{
struct alisp_object_pair *p;
const char *id;

id = name->value.s;
p = (struct alisp_object_pair *)malloc(sizeof(struct alisp_object_pair));
if (p == NULL) {
nomem();
return NULL;
}
p->name = strdup(id);
if (p->name == NULL) {
delete_tree(instance, value);
}
free(p);
return NULL;
}
list_add(&p->list, &instance->setobjs_list[get_string_hash(id)]);
p->value = value;
return p;
}

static int check_set_object(struct alisp_instance * instance, struct alisp_object * name)
{
if (name == &alsa_lisp_nil) {
lisp_warn(instance, "setting the value of a nil object");
return 0;
}
if (name == &alsa_lisp_t) {
lisp_warn(instance, "setting the value of a t object");
return 0;
}
if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
    !alisp_compare_type(name, ALISP_OBJ_STRING)) {
lisp_warn(instance, "setting the value of an object with non-indentifier");
return 0;
}
return 1;
}

static struct alisp_object_pair * set_object(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * value)
{
struct list_head *pos;
struct alisp_object_pair *p;
const char *id;

if (name == NULL || value == NULL)
return NULL;

id = name->value.s;

list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
p = list_entry(pos, struct alisp_object_pair, list);
if (!strcmp(p->name, id)) {
delete_tree(instance, p->value);
p->value = value;
return p;
}
}
p = (struct alisp_object_pair *)malloc(sizeof(struct alisp_object_pair));
if (p == NULL) {
    nomem();
    return NULL;
}

p->name = strdup(id);
if (p->name == NULL) {
    delete_tree(instance, value);
    free(p);
    return NULL;
}

list_add(&p->list, &instance->setobjs_list[get_string_hash(id)]);

p->value = value;
return p;

static struct alisp_object * unset_object(struct alisp_instance *instance, struct alisp_object * name) {
    struct list_head *pos;
    struct alisp_object *res;
    struct alisp_object_pair *p;
    const char *id;

    if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
        !alisp_compare_type(name, ALISP_OBJ_STRING)) {
        lisp_warn(instance, "unset object with a non-indentifier");
        return &alsa_lisp_nil;
    }

    id = name->value.s;

    list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
        p = list_entry(pos, struct alisp_object_pair, list);
        if (!strcmp(p->name, id)) {
            list_del(&p->list);
            res = p->value;
            free((void *)p->name);
            free(p);
            return res;
        }
    }

    return &alsa_lisp_nil;
}

static struct alisp_object * get_object1(struct alisp_instance *instance, const char *id) {
    struct alisp_object_pair *p;
    struct list_head *pos;


list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
p = list_entry(pos, struct alisp_object_pair, list);
if (!strcmp(p->name, id))
    return p->value;
}
return &alsa_lisp_nil;
}

static struct alisp_object * get_object(struct alisp_instance *instance, struct alisp_object * name)
{
if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
    !alisp_compare_type(name, ALISP_OBJ_STRING)) {
delete_tree(instance, name);
    return &alsa_lisp_nil;
}
return get_object1(instance, name->value.s);
}

static struct alisp_object * replace_object(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * onew)
{
struct alisp_object_pair *p;
struct alisp_object *r;
struct list_head *pos;
const char *id;

if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
    !alisp_compare_type(name, ALISP_OBJ_STRING)) {
delete_tree(instance, name);
    return &alsa_lisp_nil;
}
id = name->value.s;
list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
p = list_entry(pos, struct alisp_object_pair, list);
if (!strcmp(p->name, id)) {
    r = p->value;
    p->value = onew;
    return r;
}
}
return NULL;
}

static void dump_objects(struct alisp_instance *instance, const char *fname)
{
struct alisp_object_pair *p;
snd_output_t *out;
struct list_head *pos;
int i, err;

if (!strcmp(fname, ".\") )
err = snd_output_stdio_attach(&out, stdout, 0);
else
err = snd_output_stdio_open(&out, fname, "w+" );
if (err < 0) {
SNDERR("alisp: cannot open file '%%s' for writing (%%s)", fname, snd_strerror(errno));
return;
}

for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {
list_for_each(pos, &instance->setobjs_list[i]) {
p = list_entry(pos, struct alisp_object_pair, list);
if (alisp_compare_type(p->value, ALISP_OBJ_CONS) &&
alisp_compare_type(p->value->value.c.car, ALISP_OBJ_IDENTIFIER) &&
!strcmp(p->value->value.c.car->value.s, "lambda") ) {
snd_output_printf(out, "(defun %s ", p->name);
princ_cons(out, p->value->value.c.cdr);
snd_output_printf(out, ")\n");
continue;
}
snd_output_printf(out, "(setq %s ', p->name);
princ_object(out, p->value);
snd_output_printf(out, ")\n");
}
}
snd_output_close(out);

static const char *obj_type_str(struct alisp_object * p)
{
switch (alisp_get_type(p)) {
case ALISP_OBJ_NIL: return "nil";
case ALISP_OBJ_T: return "t";
case ALISP_OBJ_INTEGER: return "integer";
case ALISP_OBJ_FLOAT: return "float";
case ALISP_OBJ_IDENTIFIER: return "identifier";
case ALISP_OBJ_STRING: return "string";
case ALISP_OBJ_POINTER: return "pointer";
case ALISP_OBJ_CONS: return "cons";
default: assert(0);
}
}

static void print_obj_lists(struct alisp_instance *instance, snd_output_t *out)
struct list_head *pos;
struct alisp_object * p;
int i, j;

snd_output_printf(out, "** used objects\n");
for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++)
for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++)
list_for_each(pos, &instance->used_objs_list[i][j]) {
  p = list_entry(pos, struct alisp_object, list);
  snd_output_printf(out, "**   %p (%s) (", p, obj_type_str(p));
  if (!alisp_compare_type(p, ALISP_OBJ_CONS))
    princ_object(out, p);
  else
    snd_output_printf(out, "cons");
  snd_output_printf(out, ") refs=%i\n", alisp_get_refs(p));
}
snd_output_printf(out, "** free objects\n");
list_for_each(pos, &instance->free_objs_list) {
  p = list_entry(pos, struct alisp_object, list);
  snd_output_printf(out, "**   %p\n", p);
}

static void dump_obj_lists(struct alisp_instance *instance, const char *fname)
{
  snd_output_t *out;
  int err;

  if (!strcmp(fname, "-"))
    err = snd_output_stdio_attach(&out, stdout, 0);
  else
    err = snd_output_stdio_open(&out, fname, "w+");
  if (err < 0) {
    SNDERR("alisp: cannot open file \"%s\" for writing \"%s\", fname, snd_strerror(errno));
    return;
  }

  print_obj_lists(instance, out);

  snd_output_close(out);

  /*
   * functions
   */

  static int count_list(struct alisp_object * p)
int i = 0;

while (p != &alsa_lisp_nil && alisp_compare_type(p, ALISP_OBJ_CONS)) {
  p = p->value.c.cdr;
  ++i;
}

return i;
}

static inline struct alisp_object * car(struct alisp_object * p)
{
  if (alisp_compare_type(p, ALISP_OBJ_CONS))
    return p->value.c.car;
  return &alsa_lisp_nil;
}

static inline struct alisp_object * cdr(struct alisp_object * p)
{
  if (alisp_compare_type(p, ALISP_OBJ_CONS))
    return p->value.c.cdr;
  return &alsa_lisp_nil;
}

/*
 * Syntax: (car expr)
 */
static struct alisp_object * F_car(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object *p1 = car(args), *p2;
  delete_tree(instance, cdr(args));
  delete_object(instance, args);
  p1 = eval(instance, p1);
  delete_tree(instance, cdr(p1));
  p2 = car(p1);
  delete_object(instance, p1);
  return p2;
}

/*
 * Syntax: (cdr expr)
 */
static struct alisp_object * F_cdr(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object *p1 = car(args), *p2;

delete_tree(instance, cdr(args));
delete_object(instance, args);
p1 = eval(instance, p1);
delete_tree(instance, car(p1));
p2 = cdr(p1);
delete_object(instance, p1);
return p2;
}

/*
* Syntax: (+ expr...)
*/
static struct alisp_object * F_add(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1, * n;
    long v = 0;
    double f = 0;
    int type = ALISP_OBJ_INTEGER;

    p1 = eval(instance, car(p));
    for (;;) {
        if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
            if (type == ALISP_OBJ_FLOAT)
                f += p1->value.i;
            else
                v += p1->value.i;
        } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
            f += p1->value.f + v;
            v = 0;
            type = ALISP_OBJ_FLOAT;
        } else {
            lisp_warn(instance, "sum with a non integer or float operand");
        }
        delete_tree(instance, p1);
        p = cdr(n = p);
        delete_object(instance, n);
        if (p == &alsa_lisp_nil)
            break;
        p1 = eval(instance, car(p));
    }
    if (type == ALISP_OBJ_INTEGER) {
        return new_integer(instance, v);
    } else {
        return new_float(instance, f);
    }
}

/*
* Syntax: (concat expr...)

*/

static struct alisp_object * F_concat(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1, * n;
    char *str = NULL, *str1;

    p1 = eval(instance, car(p));
    for (;;) {
        if (alisp_compare_type(p1, ALISP_OBJ_STRING)) {
            str1 = realloc(str, (str ? strlen(str) : 0) + strlen(p1->value.s) + 1);
            if (str1 == NULL) {
                nomem();
                free(str);
                return NULL;
            }
            if (str == NULL)
                strcpy(str1, p1->value.s);
            else
                strcat(str1, p1->value.s);
            str = str1;
        } else {
            lisp_warn(instance, "concat with a non string or identifier operand");
        }
        delete_tree(instance, p1);
        p = cdr(n = p);
        delete_object(instance, n);
        if (p == &alsa_lisp_nil)
            break;
        p1 = eval(instance, car(p));
    }
    if (str) {
        p = new_string(instance, str);
        free(str);
    } else {
        p = &alsa_lisp_nil;
    }
    return p;
}

/*
 * Syntax: (- expr...)

*/

static struct alisp_object * F_sub(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1, * n;
    long v = 0;
    double f = 0;

int type = ALISP_OBJ_INTEGER;

do {
    p1 = eval(instance, car(p));
    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
        if (p == args && cdr(p) != &alsa_lisp_nil) {
            v = p1->value.i;
        } else {
            if (type == ALISP_OBJ_FLOAT) {
                f -= p1->value.i;
            } else {
                v -= p1->value.i;
            }
        }
    } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
        if (type == ALISP_OBJ_INTEGER) {
            f = v;
            type = ALISP_OBJ_FLOAT;
        }
        if (p == args && cdr(p) != &alsa_lisp_nil) {
            f = p1->value.f;
        } else {
            f -= p1->value.f;
        }
    } else {
        lisp_warn(instance, "difference with a non integer or float operand");
        delete_tree(instance, p1);
        n = cdr(p);
        delete_object(instance, p);
        p = n;
    }
} while (p != &alsa_lisp_nil);

    if (type == ALISP_OBJ_INTEGER) {
        return new_integer(instance, v);
    } else {
        return new_float(instance, f);
    }

/*
* Syntax: (* expr...)
*/

static struct alisp_object * F_mul(struct alisp_instance *instance, struct alisp_object * args) {
    struct alisp_object * p = args, * p1, * n;
    long v = 1;
    double f = 1;
    int type = ALISP_OBJ_INTEGER;
do {
p1 = eval(instance, car(p));
if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
  if (type == ALISP_OBJ_FLOAT)
    f *= p1->value.i;
  else
    v *= p1->value.i;
} else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
  f *= p1->value.f * v; v = 1;
  type = ALISP_OBJ_FLOAT;
} else {
  lisp_warn(instance, "product with a non integer or float operand");
}
delete_tree(instance, p1);
n = cdr(p);
delete_object(instance, p);
p = n;
} while (p != &alsa_lisp_nil);

if (type == ALISP_OBJ_INTEGER) {
  return new_integer(instance, v);
} else {
  return new_float(instance, f);
}
}

/*
 * Syntax: (/ expr...)
 */
static struct alisp_object * F_div(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p = args, * p1, * n;
  long v = 0;
  double f = 0;
  int type = ALISP_OBJ_INTEGER;

do {
p1 = eval(instance, car(p));
if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
  if (p == args && cdr(p) != &alsa_lisp_nil) {
    v = p1->value.i;
  } else {
    if (p1->value.i == 0) {
      lisp_warn(instance, "division by zero");
      v = 0;
      f = 0;
    break;
  } else {

```
if (type == ALISP_OBJ_FLOAT) 
f /= p1->value.i;
else 
v /= p1->value.i;
} 
} 
} else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
if (type == ALISP_OBJ_INTEGER) {
f = v;
type = ALISP_OBJ_FLOAT;
}
if (p == args && cdr(p) != &alsa_lisp_nil) {
f = p1->value.f;
} else {
if (p1->value.f == 0) {
lisp_warn(instance, "division by zero");
f = 0;
break;
} else {

f /= p1->value.i;
}
}
else 
lisp_warn(instance, "quotient with a non integer or float operand");
delete_tree(instance, p1);
n = cdr(p);
delete_object(instance, p);
p = n;
} while (p != &alsa_lisp_nil);

if (type == ALISP_OBJ_INTEGER) {
return new_integer(instance, v);
} else {
return new_float(instance, f);
}

/*
 * Syntax: (% expr1 expr2)
 */
static struct alisp_object * F_mod(struct alisp_instance *instance, struct alisp_object *args)
{
struct alisp_object * p1, * p2, * p3;

p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
    alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
    if (p2->value.i == 0) {
        lisp_warn(instance, "module by zero");
        p3 = new_integer(instance, 0);
    } else {
        p3 = new_integer(instance, p1->value.i % p2->value.i);
    }
} else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
    (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
    double f1, f2;
    f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
    f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
    f1 = fmod(f1, f2);
    if (f1 == EDOM) {
        lisp_warn(instance, "module by zero");
        p3 = new_float(instance, 0);
    } else {
        p3 = new_float(instance, f1);
    }
} else {
    lisp_warn(instance, "module with a non integer or float operand");
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return p3;

/*
 * Syntax: (< expr1 expr2)
 */
static struct alisp_object * F_lt(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);
if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
    alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
    if (p1->value.i < p2->value.i) {
        __true:
        delete_tree(instance, p1);
        delete_tree(instance, p2);
        return &alsa_lisp_t;
    }
} else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
            alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
            (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
            alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
    double f1, f2;
    f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
    f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
    if (f1 < f2)
        goto __true;
    } else {
        lisp_warn(instance, "comparison with a non integer or float operand");
    }
    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
}

/*
 * Syntax: (> expr1 expr2)
 */
static struct alisp_object * F_gt(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i > p2->value.i) {
            __true:
            delete_tree(instance, p1);
            delete_tree(instance, p2);
            return &alsa_lisp_t;
        }
} else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
    (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
    double f1, f2;
    f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
    f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
    if (f1 > f2)
        goto __true;
    } else {
        lisp_warn(instance, "comparison with a non integer or float operand");
    }

    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
}

/*
 * Syntax: (<= expr1 expr2)
 */
static struct alisp_object * F_le(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i <= p2->value.i) {
            __true:
            delete_tree(instance, p1);
            delete_tree(instance, p2);
            return &alsa_lisp_t;
        }
    } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
        (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p2, ALISP_OBJ_FLOAT)) {
        double f1, f2;
        f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
        f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
        if (f1 <= f2)
            goto __true;
} else {
    lisp_warn(instance, "comparison with a non integer or float operand");
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
 * Syntax: (>= expr1 expr2)
 */
static struct alisp_object * F_ge(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i >= p2->value.i) {
            __true:
            delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_t;
    }
    } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
        (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
        double f1, f2;
    f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
if (f1 >= f2)
go_to __true;
    } else {
    lisp_warn(instance, "comparison with a non integer or float operand");
}
    delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}
/*
 * Syntax: (= expr1 expr2)
 */
static struct alisp_object * F_numeq(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));;
    delete_tree(instance, cdr(cdr(args)));;
    delete_object(instance, cdr(args));;
    delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i == p2->value.i) {
            __true:
            delete_tree(instance, p1);
            delete_tree(instance, p2);
            return &alsa_lisp_t;
        }
    } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
        (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
        double f1, f2;
        f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
        f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
        if (f1 == f2)
            goto __true;
    } else {
        lisp_warn(instance, "comparison with a non integer or float operand");
    }

    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
}

/*
 * Syntax: (!= expr1 expr2)
 */
static struct alisp_object * F_numneq(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p;

    p = F_numeq(instance, args);
    if (p == &alsa_lisp_nil)
return &alsa_lisp_t;
return &alsa_lisp_nil;
}

/*
 * Syntax: (exfun name)
 * Test, if a function exists
 */
static struct alisp_object * F_exfun(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1, * p2;

p1 = eval(instance, car(args));
delete_tree(instance, cdr(args));
delete_object(instance, args);
p2 = get_object(instance, p1);
if (p2 == &alsa_lisp_nil) {
delete_tree(instance, p1);
return &alsa_lisp_nil;
}
p2 = car(p2);
if (alisp_compare_type(p2, ALISP_OBJ_IDENTIFIER) &&
    !strcmp(p2->value.s, "lambda")) {
delete_tree(instance, p1);
return &alsa_lisp_t;
}
delete_tree(instance, p1);
return &alsa_lisp_nil;
}

static void princ_string(snd_output_t *out, char *s)
{
char *p;

snd_output_putc(out, '"');
for (p = s; *p != '\0'; ++p)
switch (*p) {
case 'a': snd_output_putc(out, '\'); snd_output_putc(out, 'a'); break;
case 'b': snd_output_putc(out, '\'); snd_output_putc(out, 'b'); break;
case 'f': snd_output_putc(out, '\'); snd_output_putc(out, 'f'); break;
case 'n': snd_output_putc(out, '\'); snd_output_putc(out, 'n'); break;
case 'r': snd_output_putc(out, '\'); snd_output_putc(out, 'r'); break;
case 'v': snd_output_putc(out, '\'); snd_output_putc(out, 'v'); break;
case '"': snd_output_putc(out, '\'); snd_output_putc(out, '\'); break;
default: snd_output_putc(out, *p);
}
snd_output_putc(out, '"');
static void prin_c cons(snd_output_t *out, struct alisp_object * p)
{
    do {
        princ_object(out, p->value.c.car);
        p = p->value.c.cdr;
        if (p != &alsa_lisp_nil) {
            snd_output_putc(out, ' ');
            if (!alisp_compare_type(p, ALISP_OBJ_CONS)) {
                snd_output_printf(out, ". ");
                prin_c_object(out, p);
            }
        }
    } while (p != &alsa_lisp_nil && alisp_compare_type(p, ALISP_OBJ_CONS));
}

static void prin_c object(snd_output_t *out, struct alisp_object * p)
{
    switch (alisp_get_type(p)) {
        case ALISP_OBJ_NIL:
            snd_output_printf(out, "nil");
            break;
        case ALISP_OBJ_T:
            snd_output_putc(out, 't');
            break;
        case ALISP_OBJ_IDENTIFIER:
            snd_output_printf(out, "%s", p->value.s);
            break;
        case ALISP_OBJ_STRING:
            prin_c_string(out, p->value.s);
            break;
        case ALISP_OBJ_INTEGER:
            snd_output_printf(out, "%ld", p->value.i);
            break;
        case ALISP_OBJ_FLOAT:
            snd_output_printf(out, "%f", p->value.f);
            break;
        case ALISP_OBJ_POINTER:
            snd_output_printf(out, "<%p>", p->value.ptr);
            break;
        case ALISP_OBJ_CONS:
            snd_output_putc(out, '(');
            prin_c cons(out, p);
            snd_output_putc(out, ')');
    }
}
/*
 * Syntax: (princ expr...)
 */
static struct alisp_object * F_princ(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1 = NULL, * n;

do {
    if (p1)
        delete_tree(instance, p1);
    p1 = eval(instance, car(p));
    if (alisp_compare_type(p1, ALISP_OBJ_STRING))
        snd_output_printf(instance->out, "%s", p1->value.s);
    else
        princ_object(instance->out, p1);
    n = cdr(p);
    delete_object(instance, p);
    p = n;
} while (p != &alsa_lisp_nil);

return p1;
}

/*
 * Syntax: (atom expr)
 */
static struct alisp_object * F_atom(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p;

    p = eval(instance, car(args));
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    if (p == NULL)
        return NULL;

switch (alisp_get_type(p)) {
    case ALISP_OBJ_T:
    case ALISP_OBJ_NIL:
    case ALISP_OBJ_INTEGER:
    case ALISP_OBJ_FLOAT:
    case ALISP_OBJ_STRING:
    case ALISP_OBJ_IDENTIFIER:
    case ALISP_OBJ_POINTER:
        delete_tree(instance, p);
        return &alsa_lisp_t;
    default:
        break;
delete_tree(instance, p);
return &alsa_lisp_nil;
}

/*
* Syntax: (cons expr1 expr2)
*/
static struct alisp_object * F_cons(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p;

    p = new_object(instance, ALISP_OBJ_CONS);
    if (p) {
        p->value.c.car = eval(instance, car(args));
        p->value.c.cdr = eval(instance, car(cdr(args)));
        delete_tree(instance, cdr(cdr(args)));
        delete_object(instance, cdr(args));
        delete_object(instance, args);
    } else {
        delete_tree(instance, args);
    }

    return p;
}

/*
* Syntax: (list expr1...)
*/
static struct alisp_object * F_list(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * first = NULL, * prev = NULL, * p1;

    if (p == &alsa_lisp_nil)
        return &alsa_lisp_nil;

    do {
        p1 = new_object(instance, ALISP_OBJ_CONS);
        if (p1 == NULL) {
            delete_tree(instance, p);
            delete_tree(instance, first);
            return NULL;
        }

        p1->value.c.car = eval(instance, car(p));
        if (p1->value.c.car == NULL) {
            delete_tree(instance, first);
            delete_tree(instance, cdr(p));
        }
    } while (p = car(cdr(args)));

    return p;
}
delete_object(instance, p);
return NULL;
}
if (first == NULL)
first = p1;
if (prev != NULL)
prev->value.c.cdr = p1;
prev = p1;
p = cdr(p1 = p);
delete_object(instance, p1);
} while (p != &alsa_lisp_nil);

return first;
}

static inline int eq(struct alisp_object * p1, struct alisp_object * p2)
{
return p1 == p2;
}

static int equal(struct alisp_object * p1, struct alisp_object * p2)
{
int type1, type2;
if (eq(p1, p2))
return 1;

type1 = alisp_get_type(p1);
type2 = alisp_get_type(p2);
if (type1 == ALISP_OBJ_CONS || type2 == ALISP_OBJ_CONS)
return 0;
if (type1 == type2) {
switch (type1) {
case ALISP_OBJ_STRING:
return !strcmp(p1->value.s, p2->value.s);
case ALISP_OBJ_INTEGER:
return p1->value.i == p2->value.i;
case ALISP_OBJ_FLOAT:
return p1->value.i == p2->value.i;
}
}
return 0;
} /*
* Syntax: (eq expr1 expr2)

static struct alisp_object * F_eq(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    if (eq(p1, p2)) {
        delete_tree(instance, p1);
        delete_tree(instance, p2);
        return &alsa_lisp_t;
    }
    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
}

/*
* Syntax: (equal expr1 expr2)
*/

static struct alisp_object * F_equal(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    if (equal(p1, p2)) {
        delete_tree(instance, p1);
        delete_tree(instance, p2);
        return &alsa_lisp_t;
    }
    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
}

/*
* Syntax: (quote expr)
*/
static struct alisp_object * F_quote(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * args)
{
struct alisp_object *p = car(args);

delete_tree(instance, cdr(args));
delete_object(instance, args);
return p;
}

/*@  
* Syntax: (and expr...)  
*/
static struct alisp_object * F_and(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1 = NULL, * n;

do {
if (p1)
delete_tree(instance, p1);
p1 = eval(instance, car(p));
if (p1 == &alsa_lisp_nil) {
delete_tree(instance, p1);
delete_tree(instance, cdr(p));
delete_object(instance, p);
return &alsa_lisp_nil;
}
p = cdr(n = p);
delete_object(instance, n);
} while (p != &alsa_lisp_nil);

return p1;
}

/*@  
* Syntax: (or expr...)  
*/
static struct alisp_object * F_or(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1 = NULL, * n;

do {
if (p1)
delete_tree(instance, p1);
p1 = eval(instance, car(p));
if (p1 != &alsa_lisp_nil) {
delete_tree(instance, cdr(p));
delete_object(instance, p);
}}
return p1;
}
p = cdr(n = p);
delete_object(instance, n);
} while (p != &alsa_lisp_nil);

return &alsa_lisp_nil;
}

/
* Syntax: (not expr)
* Syntax: (null expr)
*/
static struct alisp_object * F_not(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = eval(instance, car(args));
delete_tree(instance, cdr(args));
delete_object(instance, args);
if (p != &alsa_lisp_nil) {
delete_tree(instance, p);
return &alsa_lisp_nil;
}
delete_tree(instance, p);
return &alsa_lisp_t;
}

/
* Syntax: (cond (expr1 [expr2])...)
*/
static struct alisp_object * F_cond(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1, * p2, * p3;
do {
p1 = car(p);
if ((p2 = eval(instance, car(p1))) != &alsa_lisp_nil) {
p3 = cdr(p1);
delete_object(instance, p1);
delete_tree(instance, cdr(p));
delete_object(instance, p);
if (p3 != &alsa_lisp_nil) {
delete_tree(instance, p2);
return F_progn(instance, p3);
} else {
delete_tree(instance, p3);
return p2;
}
} else {
    delete_tree(instance, p2);
    delete_tree(instance, cdr(p1));
    delete_object(instance, p1);
}
p = cdr(p2 = p);
delete_object(instance, p2);
} while (p != &alsa_lisp_nil);
return &alsa_lisp_nil;
}

/*
 * Syntax: (if expr then-expr else-expr...)
 */
static struct alisp_object * F_if(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * p3;

    p1 = car(args);
    p2 = car(cdr(args));
    p3 = cdr(cdr(args));
delete_object(instance, cdr(args));
delete_object(instance, args);

    p1 = eval(instance, p1);
    if (p1 != &alsa_lisp_nil) {
        delete_tree(instance, p1);
        delete_tree(instance, p3);
        return eval(instance, p2);
    }

delete_tree(instance, p1);
delete_tree(instance, p2);
return F_progn(instance, p3);
}

/*
 * Syntax: (when expr then-expr...)
 */
static struct alisp_object * F_when(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = car(args);
    p2 = cdr(args); delete_object(instance, args);
if ((p1 = eval(instance, p1)) != &alsa_lisp_nil) {
  delete_tree(instance, p1);
  return F_progn(instance, p2);
} else {
  delete_tree(instance, p1);
  delete_tree(instance, p2);
}

return &alsa_lisp_nil;
}

/*
* Syntax: (unless expr else-expr...)
*/
static struct alisp_object * F_unless(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1, * p2;

  p1 = car(args);
  p2 = cdr(args);
  delete_object(instance, args);
  if ((p1 = eval(instance, p1)) == &alsa_lisp_nil) {
    return F_progn(instance, p2);
  } else {
    delete_tree(instance, p1);
    delete_tree(instance, p2);
  }

  return &alsa_lisp_nil;
}

/*
* Syntax: (while expr exprs...) 
*/
static struct alisp_object * F_while(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1, * p2, * p3;

  p1 = car(args);
  p2 = cdr(args);

  delete_object(instance, args);
  while (1) {
    incref_tree(instance, p1);
    if ((p3 = eval(instance, p1)) == &alsa_lisp_nil)
      break;
    delete_tree(instance, p3);
    incref_tree(instance, p2);
delete_tree(instance, F_progn(instance, p2));
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
* Syntax: (progn expr...)
*/
static struct alisp_object * F_progn(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1 = NULL, * n;

do {
  if (p1)
    delete_tree(instance, p1);
p1 = eval(instance, car(p));
n = cdr(p);
delete_object(instance, p);
p = n;
} while (p != &alsa_lisp_nil);

return p1;
}

/*
* Syntax: (prog1 expr...) 
*/
static struct alisp_object * F_prog1(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * first = NULL, * p1;

do {
  p1 = eval(instance, car(p));
  if (first == NULL)
    first = p1;
  else
    delete_tree(instance, p1);
p1 = cdr(p);
delete_object(instance, p);
p = p1;
} while (p != &alsa_lisp_nil);

if (first == NULL)
  first = &alsa_lisp_nil;

if (first != NULL)
  first = &alsa_lisp_nil;
return first;
}

/*
 * Syntax: (prog2 expr...)
 */
static struct alisp_object * F_prog2(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * second = NULL, * p1;
int i = 0;

    do {
        ++i;
        p1 = eval(instance, car(p));
        if (i == 2)
            second = p1;
        else
            delete_tree(instance, p1);
        p1 = cdr(p);
        delete_object(instance, p);
        p = p1;
    } while (p != &alsa_lisp_nil);

    if (second == NULL)
        second = &alsa_lisp_nil;

    return second;
}

/*
 * Syntax: (set name value)
 */
static struct alisp_object * F_set(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1 = eval(instance, car(args)),
         * p2 = eval(instance, car(cdr(args)));

delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);
if (!check_set_object(instance, p1)) {
    delete_tree(instance, p2);
    p2 = &alsa_lisp_nil;
} else {
    if (set_object(instance, p1, p2) == NULL) {
        delete_tree(instance, p1);
        delete_tree(instance, p2);
        return NULL;
    } else {
        p2 = eval(instance, car(cdr(args)));
        * p2 = eval(instance, car(cdr(args)));
        delete_tree(instance, cdr(args));
        delete_object(instance, args);
        delete_object(instance, cdr(args));
    }
}

if (second == NULL)
    second = &alsa_lisp_nil;

return second;
}
delete_tree(instance, p1);
return incref_tree(instance, p2);
}

/*
 * Syntax: (unset name)
 */
static struct alisp_object * F_unset(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1 = eval(instance, car(args));
delele_tree(instance, unset_object(instance, p1));
delete_tree(instance, cdr(args));
delete_object(instance, args);
return p1;
}

/*
 * Syntax: (setq name value...)
 * Syntax: (setf name value...)
 * `name' is not evalled
 */
static struct alisp_object * F_setq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1, * p2 = NULL, *n;
do {
p1 = car(p);
p2 = eval(instance, car(cdr(p)));
n = cdr(cdr(p));
delete_object(instance, cdr(p));
delete_object(instance, p);
if (!check_set_object(instance, p1)) {
delete_tree(instance, p2);
p2 = &alsa_lisp_nil;
} else {
if (set_object(instance, p1, p2) == NULL) {
delete_tree(instance, p1);
delete_tree(instance, p2);
return NULL;
}
}
delete_tree(instance, p1);
p = n;
} while (p != &alsa_lisp_nil);
return incref_tree(instance, p2);
}

/**
 * Syntax: (unsetq name...)  
 * Syntax: (unsetf name...)  
 * `name' is not evalled  
 */
static struct alisp_object * F_unsetq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1 = NULL, * n;

do {
if (p1)
  delete_tree(instance, p1);
  p1 = unset_object(instance, car(p));
  delete_tree(instance, car(p));
  p = cdr(n = p);
  delete_object(instance, n);
} while (p != &alsa_lisp_nil);

return p1;
}

/**
 * Syntax: (defun name arglist expr...)
 * `name' is not evalled
 * `arglist' is not evalled
 */
static struct alisp_object * F_defun(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1 = car(args), * p2 = car(cdr(args)), * p3 = cdr(cdr(args));
struct alisp_object * lexpr;
lexpr = new_object(instance, ALISP_OBJ_CONS);
if (lexpr) {
  lexpr->value.c.car = new_identifier(instance, "lambda");
  if (lexpr->value.c.car == NULL) {
    delete_object(instance, lexpr);
    delete_tree(instance, args);
    return NULL;
  }
  if ((lexpr->value.c.cdr = new_object(instance, ALISP_OBJ_CONS)) == NULL) {
    delete_object(instance, lexpr->value.c.car);
    delete_object(instance, lexpr);
    delete_tree(instance, args);
    return NULL;
  }
  if ((lexpr->value.c.cdr = new_object(instance, ALISP_OBJ_CONS)) == NULL) {
    delete_object(instance, lexpr->value.c.car);
    delete_object(instance, lexpr);
    delete_tree(instance, args);
    return NULL;
  }
  p1 = car(args);
  p2 = car(cdr(args));
  p3 = cdr(cdr(args));
  struct alisp_object * lexpr;
  lexpr = new_object(instance, ALISP_OBJ_CONS);
  if (lexpr) {
    lexpr->value.c.car = new_identifier(instance, "lambda");
    if (lexpr->value.c.car == NULL) {
      delete_object(instance, lexpr);
      delete_tree(instance, args);
      return NULL;
    }
    if ((lexpr->value.c.cdr = new_object(instance, ALISP_OBJ_CONS)) == NULL) {
      delete_object(instance, lexpr->value.c.car);
      delete_object(instance, lexpr);
      delete_tree(instance, args);
      return NULL;
    }
  }
  if ((lexpr->value.c.cdr = new_object(instance, ALISP_OBJ_CONS)) == NULL) {
    delete_object(instance, lexpr->value.c.car);
    delete_object(instance, lexpr);
    delete_tree(instance, args);
    return NULL;
  }
  delete_object(instance, lexpr->value.c.car);
  delete_object(instance, lexpr);
  delete_tree(instance, args);
  return NULL;
}
return NULL;

lexpr->value.c.cdr->value.c.car = p2;
lexpr->value.c.cdr->value.c.cdr = p3;
delete_object(instance, cdr(args));
delete_object(instance, args);
if (set_object(instance, p1, lexpr) == NULL) {
delete_tree(instance, p1);
delete_tree(instance, lexpr);
return NULL;
}
delete_tree(instance, p1);
else {
delete_tree(instance, args);
}
return &alsa_lisp_nil;
}

static struct alisp_object * eval_func(struct alisp_instance *instance, struct alisp_object * p, struct alisp_object * args)
{
struct alisp_object * p1, * p2, * p3, * p4;
struct alisp_object ** eval_objs, ** save_objs;
int i;

p1 = car(p);
if (alisp_compare_type(p1, ALISP_OBJ_IDENTIFIER) &&
   !strcmp(p1->value.s, "lambda")) {
p2 = car(cdr(p));
p3 = args;

if ((i = count_list(p2)) != count_list(p3)) {
lisp_warn(instance, "wrong number of parameters");
goto _delete;
}

 eval_objs = malloc(2 * i * sizeof(struct alisp_object *));
if (eval_objs == NULL) {
 nomem();
goto _delete;
}
save_objs = eval_objs + i;

/*
 * Save the new variable values.
 */
i = 0;
while (p3 != &alsa_lisp_nil) {

eval_objs[i++] = eval(instance, car(p3));
p3 = cdr(p4 = p3);
delete_object(instance, p4);
}

/*
 * Save the old variable values and set the new ones.
 */
i = 0;
while (p2 != &alsa_lisp_nil) {
p3 = car(p2);
save_objs[i] = replace_object(instance, p3, eval_objs[i]);
if (save_objs[i] == NULL &&
    set_object_direct(instance, p3, eval_objs[i]) == NULL) {
p4 = NULL;
goto _end;
}
p2 = cdr(p2);
++i;
}
p4 = F_progn(instance, cdr(incref_tree(instance, p3 = cdr(p))));

/*
 * Restore the old variable values.
 */
p2 = car(p3);
delete_object(instance, p3);
i = 0;
while (p2 != &alsa_lisp_nil) {
p3 = car(p2);
if (save_objs[i] == NULL) {
p3 = unset_object(instance, p3);
} else {
p3 = replace_object(instance, p3, save_objs[i]);
}
i++;
delete_tree(instance, p3);
delete_tree(instance, car(p2));
p2 = cdr(p3 = p2);
delete_object(instance, p3);
}

_end:
free(eval_objs);

return p4;
} else {
_delete:
delete_tree(instance, args);
}
return &alsa_lisp_nil;
}

struct alisp_object * F_gc(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * args ATTRIBUTE_UNUSED)
{
    /* improved: no more traditional gc */
    return &alsa_lisp_t;
}

/*
 * Syntax: (path what)
 * what is string ('data')
 */

struct alisp_object * F_path(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1;

    p1 = eval(instance, car(args));
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    if (!alisp_compare_type(p1, ALISP_OBJ_STRING)) {
        delete_tree(instance, p1);
        return &alsa_lisp_nil;
    }
    if (!strcmp(p1->value.s, "data")) {
        delete_tree(instance, p1);
        return new_string(instance, snd_config_topdir());
    }
    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}

/*
 * Syntax: (include filename...)
 */

struct alisp_object * F_include(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1;
    int res = -ENOENT;
    do {
        p1 = eval(instance, car(p));
        if (alisp_compare_type(p1, ALISP_OBJ_STRING))
            res = alisp_include_file(instance, p1->value.s);
    } while (p1 = eval(instance, car(p)));
    return &alsa_lisp_nil;
}
delete_tree(instance, p1);
p = cdr(p1 = p);
delete_object(instance, p1);
} while (p != &alsa_lisp_nil);

return new_integer(instance, res);
}

/*
 * Syntax: (string-to-integer value)
 * 'value' can be integer or float type
 */
struct alisp_object * F_string_to_integer(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = eval(instance, car(args)), * p1;

delete_tree(instance, cdr(args));
delete_object(instance, args);
if (alisp_compare_type(p, ALISP_OBJ_INTEGER))
    return p;
if (alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
p1 = new_integer(instance, floor(p->value.f));
} else {
lisp_warn(instance, "expected an integer or float for integer conversion");
p1 = &alsa_lisp_nil;
}
delete_tree(instance, p);
return p1;
}

/*
 * Syntax: (string-to-float value)
 * 'value' can be integer or float type
 */
struct alisp_object * F_string_to_float(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = eval(instance, car(args)), * p1;

delete_tree(instance, cdr(args));
delete_object(instance, args);
if (alisp_compare_type(p, ALISP_OBJ_FLOAT))
    return p;
if (alisp_compare_type(p, ALISP_OBJ_INTEGER)) {
p1 = new_float(instance, p->value.i);
} else {
lisp_warn(instance, "expected an integer or float for integer conversion");
p1 = &alsa_lisp_nil;
}

delete_tree(instance, p);
return p1;
}

static int append_to_string(char **s, int *len, char *from, int size)
{
    if (*len == 0) {
        *s = malloc(*len = size + 1);
        if (*s == NULL) {
            nomem();
            return -ENOMEM;
        }
        memcpy(*s, from, size);
    } else {
        *len += size;
        *s = realloc(*s, *len);
        if (*s == NULL) {
            nomem();
            return -ENOMEM;
        }
        memcpy(*s + strlen(*s), from, size);
    }
    (*s)[*len - 1] = '\0';
    return 0;
}

static int format_parse_char(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    char b;

    if (!alisp_compare_type(p, ALISP_OBJ_INTEGER)) {
        lisp_warn(instance, "format: expected integer\n");
        return 0;
    }
    b = p->value.i;
    return append_to_string(s, len, &b, 1);
}

static int format_parse_integer(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    int res;
    char *s1;

    if (!alisp_compare_type(p, ALISP_OBJ_INTEGER) &&
        !alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
        lisp_warn(instance, "format: expected integer or float\n");
        return 0;
    }
s1 = malloc(64);
if (s1 == NULL) {
    nomem();
    return -ENOMEM;
}
sprintf(s1, "%li", alisp_compare_type(p, ALISP_OBJ_FLOAT) ? (long)floor(p->value.f) : p->value.i);
res = append_to_string(s, len, s1, strlen(s1));
free(s1);
return res;

static int format_parse_float(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    int res;
    char *s1;

    if (!alisp_compare_type(p, ALISP_OBJ_INTEGER) &&
        !alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
        lisp_warn(instance, "format: expected integer or float\n");
        return 0;
    }
    s1 = malloc(64);
    if (s1 == NULL) {
        nomem();
        return -ENOMEM;
    }
    sprintf(s1, "%f", alisp_compare_type(p, ALISP_OBJ_FLOAT) ? p->value.f : (double)p->value.i);
    res = append_to_string(s, len, s1, strlen(s1));
    free(s1);
    return res;
}

static int format_parse_string(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    if (!alisp_compare_type(p, ALISP_OBJ_STRING)) {
        lisp_warn(instance, "format: expected string\n");
        return 0;
    }
    return append_to_string(s, len, p->value.s, strlen(p->value.s));
}

/*
 * Syntax: (format format value...)
 * 'format' is C-like format string
 *
 struct alisp_object * F_format(struct alisp_instance *instance, struct alisp_object * args)
 {
     struct alisp_object * p = eval(instance, car(args)), * p1 = cdr(args), * n;
     ...
char *s, *s1, *s2;
int len;

delete_object(instance, args);
if (!alisp_compare_type(p, ALISP_OBJ_STRING)) {
    delete_tree(instance, p1);
    delete_tree(instance, p);
    lisp_warn(instance, "format: expected an format string");
    return &alsa_lisp_nil;
}

s = p->value.s;
s1 = NULL;
len = 0;
n = eval(instance, car(p1));
do {
    while (1) {
        s2 = s;
        while (*s2 && *s2 != '%')
            s2++;
        if (s2 != s) {
            if (append_to_string(&s1, &len, s, s2 - s) < 0) {
                __error:
                delete_tree(instance, n);
                delete_tree(instance, cdr(p1));
                delete_object(instance, p1);
                delete_tree(instance, p);
                return NULL;
            }
        }
        if (*s2 == '%')
            s2++;
        switch (*s2) {
            case '%':
                if (format_parse_char(instance, &s1, &len, n) < 0)
                    goto __error;
                s = s2 + 1;
                break;
            case 'c':
                if (format_parse_char(instance, &s1, &len, n) < 0)
                    goto __error;
                s = s2 + 1;
                goto __next;
            case 'd':
                case 'i':
                    if (format_parse_integer(instance, &s1, &len, n) < 0)
                        goto __error;
                    s = s2 + 1;
                    goto __next;
        }
    }
}
if (*s2 == '%')
    s2++;
switch (*s2) {  
    case 'c':
        if (format_parse_char(instance, &s1, &len, n) < 0)
            goto __error;
        s = s2 + 1;
        break;
    case 'd':
    case 'i':
        if (format_parse_integer(instance, &s1, &len, n) < 0)
            goto __error;
        s = s2 + 1;
        goto __next;
case 'f':
    if (format_parse_float(instance, &s1, &len, n) < 0)
        goto __error;
    s = s2 + 1;
    goto __next;
    case 's':
    if (format_parse_string(instance, &s1, &len, n) < 0)
        goto __error;
    s = s2 + 1;
    goto __next;
    case '0':
        goto __end;
    default:
        lisp_warn(instance, "unknown format char '%c'", *s2);
        s = s2 + 1;
        goto __next;
    }
__next:
delete_tree(instance, n);
p1 = cdr(n = p1);
delete_object(instance, n);
n = eval(instance, car(p1));
} while (*s);
__end:
delete_tree(instance, n);
delete_tree(instance, cdr(p1));
delete_object(instance, p1);
delete_tree(instance, p);
if (len > 0) {
    p1 = new_string(instance, s1);
    free(s1);
} else {
    p1 = &alsa_lisp_nil;
}
return p1;
}

/*
 * Syntax: (compare-strings str1 start1 end1 str2 start2 end2 /opt-case-insensitive)
 * 'str1' is first compared string
 * 'start1' is first char (0..)
 * 'end1' is last char (0..)
 * 'str2' is second compared string
 * 'start2' is first char (0..)
 * 'end2' is last char (0..)
 * /opt-case-insensitive true - case insensitive match
 */
struct alisp_object * F_compare_strings(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1 = args, * n, * p[7];
  char *s1, *s2;
  int start1, end1, start2, end2;

  for (start1 = 0; start1 < 7; start1++) {
    p[start1] = eval(instance, car(p1));
    p1 = cdr(n = p1);
    delete_object(instance, n);
  }
  delete_tree(instance, p1);
  if (alisp_compare_type(p[0], ALISP_OBJ_STRING)) {
    lisp_warn(instance, "compare-strings: first argument must be string\n");
    p1 = &alsa_lisp_nil;
    goto __err;
  }
  if (alisp_compare_type(p[1], ALISP_OBJ_INTEGER)) {
    lisp_warn(instance, "compare-strings: second argument must be integer\n");
    p1 = &alsa_lisp_nil;
    goto __err;
  }
  if (alisp_compare_type(p[2], ALISP_OBJ_INTEGER)) {
    lisp_warn(instance, "compare-strings: third argument must be integer\n");
    p1 = &alsa_lisp_nil;
    goto __err;
  }
  if (alisp_compare_type(p[3], ALISP_OBJ_STRING)) {
    lisp_warn(instance, "compare-strings: fifth argument must be string\n");
    p1 = &alsa_lisp_nil;
    goto __err;
  }
  if (!alisp_compare_type(p[4], ALISP_OBJ_NIL) &&
      !alisp_compare_type(p[4], ALISP_OBJ_INTEGER)) {
    lisp_warn(instance, "compare-strings: fourth argument must be integer\n");
    p1 = &alsa_lisp_nil;
    goto __err;
  }
  if (!alisp_compare_type(p[5], ALISP_OBJ_NIL) &&
      !alisp_compare_type(p[5], ALISP_OBJ_INTEGER)) {
    lisp_warn(instance, "compare-strings: sixth argument must be integer\n");
    p1 = &alsa_lisp_nil;
    goto __err;
  }
  s1 = p[0]->value.s;
  start1 = p[1]->value.i;
  end1 = p[2]->value.i;
  s2 = p[3]->value.s;
start2 = alisp_compare_type(p[4], ALISP_OBJ_NIL) ? 0 : p[4]->value.i;
end2 = alisp_compare_type(p[5], ALISP_OBJ_NIL) ? start2 + (end1 - start1) : p[5]->value.i;
if (start1 < 0 || start2 < 0 || end1 < 0 || end2 < 0 ||
    start1 >= (int)strlen(s1) || start2 >= (int)strlen(s2) ||
    (end1 - start1) != (end2 - start2)) {
    p1 = &alsa_lisp_nil;
    goto __err;
}
if (p[6] != &alsa_lisp_nil) {
    while (start1 < end1) {
        if (s1[start1] == '\0' ||
            s2[start2] == '\0' ||
            tolower(s1[start1]) != tolower(s2[start2])) {
            p1 = &alsa_lisp_nil;
            goto __err;
        }
        start1++;
        start2++;
    }
} else {
    while (start1 < end1) {
        if (s1[start1] == '\0' ||
            s2[start2] == '\0' ||
            s1[start1] != s2[start2]) {
            p1 = &alsa_lisp_nil;
            goto __err;
        }
        start1++;
        start2++;
    }
}
p1 = &alsa_lisp_t;
__err:
for (start1 = 0; start1 < 7; start1++)
    delete_tree(instance, p[start1]);
return p1;

/*
 * Syntax: (assoc key alist)
 */
struct alisp_object * F_assoc(struct alisp_instance *instance, struct alisp_object *args)
{
    struct alisp_object * p1, * p2, * n;

    p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));  
delete_object(instance, cdr(cdr(args)));  
delete_object(instance, args);

do {
  if (eq(p1, car(cdr(p2)))) {
    n = car(p2);
    delete_tree(instance, p1);
    delete_tree(instance, cdr(p2));
    delete_object(instance, p2);
    return n;
  }
  delete_tree(instance, car(p2));
  p2 = cdr(n = p2);
  delete_object(instance, n);
} while (p2 != &alsa_lisp_nil);

delete_tree(instance, p1);
return &alsa_lisp_nil;
}

/*
 * Syntax: (rassoc value alist)
 */

struct alisp_object * F_rassoc(struct alisp_instance *instance, struct alisp_object * args) {
  struct alisp_object * p1, *p2, * n;

  p1 = eval(instance, car(args));
  p2 = eval(instance, car(cdr(args)));
  delete_tree(instance, cdr(cdr(args)));
  delete_object(instance, cdr(args));
  delete_object(instance, args);

  do {
    if (eq(p1, cdr(car(p2)))) {
      n = car(p2);
      delete_tree(instance, p1);
      delete_tree(instance, cdr(p2));
      delete_object(instance, p2);
      return n;
    }
    delete_tree(instance, car(p2));
    p2 = cdr(n = p2);
    delete_object(instance, n);
  } while (p2 != &alsa_lisp_nil);

  delete_tree(instance, p1);
return &alsa_lisp_nil;
}

/*
 * Syntax: (assq key alist)
 */
struct alisp_object * F_assq(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * n;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    do {
        if (equal(p1, car(car(p2)))) {
            n = car(p2);
            delete_tree(instance, p1);
            delete_tree(instance, cdr(p2));
            delete_object(instance, p2);
            return n;
        }
        delete_tree(instance, car(p2));
        p2 = cdr(n = p2);
        delete_object(instance, n);
    } while (p2 != &alsa_lisp_nil);

    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}

/*
 * Syntax: (nth index alist)
 */
struct alisp_object * F_nth(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * n;
    long idx;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    if (!alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}
if (!alisp_compare_type(p2, ALISP_OBJ_CONS)) {
delte_object(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}
idx = p1->value.i;
delete_object(instance, p1);
while (idx-- > 0) {
delete_tree(instance, car(p2));
p2 = cdr(n = p2);
delete_object(instance, n);
}
n = car(p2);
delete_tree(instance, cdr(p2));
delete_object(instance, p2);
return n;
}

/*
 * Syntax: (rassq value alist)
 */

struct alisp_object * F_rassq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1, * p2, * n;

p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

do {
if (equal(p1, cdr(car(p2)))) {
 n = car(p2);
delete_tree(instance, p1);
delete_tree(instance, cdr(p2));
delete_object(instance, p2);
return n;
}
delete_tree(instance, car(p2));
p2 = cdr(n = p2);
delete_object(instance, n);
} while (p2 != &alsa_lisp_nil);
delete_tree(instance, p1);
return &alsa_lisp_nil;
}

static struct alisp_object * F_dump_memory(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = car(args);

if (p != &alsa_lisp_nil && cdr(args) == &alsa_lisp_nil &&
    alisp_compare_type(p, ALISP_OBJ_STRING))
{
    if (strlen(p->value.s) > 0) {
        dump_objects(instance, p->value.s);
        delete_tree(instance, args);
        return &alsa_lisp_t;
    } else
        lisp_warn(instance, "expected filename");
} else
    lisp_warn(instance, "wrong number of parameters (expected string)");

delete_tree(instance, args);
return &alsa_lisp_nil;
}

static struct alisp_object * F_stat_memory(struct alisp_instance *instance, struct alisp_object * args)
{
snd_output_printf(instance->out, "*** Memory stats\n");
snd_output_printf(instance->out, "  used_objs = %li, free_objs = %li, max_objs = %li, obj_size = %i (total bytes =
    %li, max bytes = %li)\n",
    instance->used_objs,
    instance->free_objs,
    instance->max_objs,
    (int)sizeof(struct alisp_object),
    (long)(instance->used_objs + instance->free_objs) * sizeof(struct alisp_object)),
    (long)(instance->max_objs * sizeof(struct alisp_object)));

delete_tree(instance, args);
return &alsa_lisp_nil;
}

static struct alisp_object * F_check_memory(struct alisp_instance *instance, struct alisp_object * args)
{
delete_tree(instance, args);
if (instance->used_objs > 0) {
    fprintf(stderr, "!!!alsa lisp - check memory failed!!!\n");
    F_stat_memory(instance, &alsa_lisp_nil);
    exit(EXIT_FAILURE);
}
return &alsa_lisp_t;
static struct alisp_object * F_dump_objects(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = car(args);

    if (p != &alsa_lisp_nil && cdr(args) == &alsa_lisp_nil &&
        alisp_compare_type(p, ALISP_OBJ_STRING)) {
        if (strlen(p->value.s) > 0) {
            dump_obj_lists(instance, p->value.s);
            delete_tree(instance, args);
            return &alsa_lisp_t;
        } else
            lisp_warn(instance, "expected filename");
    } else
        lisp_warn(instance, "wrong number of parameters (expected string)");

    delete_tree(instance, args);
    return &alsa_lisp_nil;
}

struct intrinsic {
    const char *name;
    struct alisp_object * (*func)(struct alisp_instance *instance, struct alisp_object * args);
};

static const struct intrinsic intrinsics[] = {
    { "!=" , F_numneq },
    { "%" , F_mod },
    { "&check-memory" , F_check_memory },
    { "&dump-memory" , F_dump_memory },
    { "&dump-objects" , F_dump_objects },
    { "&stat-memory" , F_stat_memory },
    { "*" , F_mul },
    { "+" , F_add },
    { "," , F_sub },
    { "/" , F_div },
    { ">", F_gt },
    { "<=" , F_le },
    { "=" , F_numeq },
    { ">" , F_gt },
    { ">=" , F_ge },
    { "and" , F_and },
    { "assoc" , F_assoc },
    { "assq" , F_assq },
    { "atom" , F_atom },
    { "car" , F_car },
    { "cdr" , F_cdr },
    { "compare-strings" , F_compare_strings }
};
#include "alisp_snd.c"

static int compar(const void *p1, const void *p2)
{
    return strcmp(((struct intrinsic *)p1)->name,

    }
static inline struct alisp_object * eval_cons1(struct alisp_instance *instance, struct alisp_object * p1, struct alisp_object * p2)
{
    struct alisp_object * p3;
    struct intrinsic key, *item;

    key.name = p1->value.s;

    if ((item = bsearch(&key, intrinsics, sizeof intrinsics / sizeof intrinsics[0], sizeof intrinsics[0], compar)) != NULL) {
        delete_object(instance, p1);
        return item->func(instance, p2);
    }

    if ((item = bsearch(&key, snd_intrinsics, sizeof snd_intrinsics / sizeof snd_intrinsics[0], sizeof snd_intrinsics[0], compar)) != NULL) {
        delete_object(instance, p1);
        return item->func(instance, p2);
    }

    if ((p3 = get_object(instance, p1)) != &alsa_lisp_nil) {
        delete_object(instance, p1);
        return eval_func(instance, p3, p2);
    } else {
        lisp_warn(instance, "function `\%s' is undefined", p1->value.s);
        delete_object(instance, p1);
        delete_tree(instance, p2);
    }

    return &alsa_lisp_nil;
}

/*
 * Syntax: (funcall function args...)
 */

static struct alisp_object * F_funcall(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = eval(instance, car(args)), * p1;

    if (!alisp_compare_type(p, ALISP_OBJ_IDENTIFIER) &&
        !alisp_compare_type(p, ALISP_OBJ_STRING)) {
        lisp_warn(instance, "expected an function name");
        delete_tree(instance, p);
        return &alsa_lisp_nil;
    } else {
        struct intrinsic key, *item;
        key.name = p1->value.s;

        if ((item = bsearch(&key, intrinsics, sizeof intrinsics / sizeof intrinsics[0], sizeof intrinsics[0], compar)) != NULL) {
            delete_object(instance, p1);
            return item->func(instance, p2);
        }

        if ((item = bsearch(&key, snd_intrinsics, sizeof snd_intrinsics / sizeof snd_intrinsics[0], sizeof snd_intrinsics[0], compar)) != NULL) {
            delete_object(instance, p1);
            return item->func(instance, p2);
        }

        if ((p3 = get_object(instance, p1)) != &alsa_lisp_nil) {
            delete_object(instance, p1);
            return eval_func(instance, p3, p2);
        } else {
            lisp_warn(instance, "function `\%s' is undefined", p1->value.s);
            delete_object(instance, p1);
            delete_tree(instance, p2);
        }
    }

    return &alsa_lisp_nil;
}

/*
 * Syntax: (funcall function args...)
 */

static struct alisp_object * F_funcall(struct alisp_instance *instance, struct alisp_object * args)
{
delete_tree(instance, cdr(args));
delete_object(instance, args);
return &alsa_lisp_nil;
}
p1 = cdr(args);
delete_object(instance, args);
return eval_cons1(instance, p, p1);
}

static inline struct alisp_object * eval_cons(struct alisp_instance *instance, struct alisp_object * p)
{
struct alisp_object * p1 = car(p), * p2;

if (p1 != &alsa_lisp_nil && alisp_compare_type(p1, ALISP_OBJ_IDENTIFIER)) {
    if (!strcmp(p1->value.s, "lambda"))
        return p;
    p2 = cdr(p);
delete_object(instance, p);
return eval_cons1(instance, p1, p2);
} else {
delete_tree(instance, p);
}
return &alsa_lisp_nil;
}

static struct alisp_object * eval(struct alisp_instance *instance, struct alisp_object * p)
{
switch (alisp_get_type(p)) {
case ALISP_OBJ_IDENTIFIER: {
    struct alisp_object *r = incref_tree(instance, get_object(instance, p));
delete_object(instance, p);
return r;
}
case ALISP_OBJ_INTEGER:
case ALISP_OBJ_FLOAT:
case ALISP_OBJ_STRING:
case ALISP_OBJ_POINTER:
return p;
case ALISP_OBJ_CONS:
return eval_cons(instance, p);
default:
break;
}
return p;
}
static struct alisp_object * F_eval(struct alisp_instance *instance, struct alisp_object * args)
{
  return eval(instance, eval(instance, car(args)));
}

/**
 *  main routine
 */

static int alisp_include_file(struct alisp_instance *instance, const char *filename)
{
  snd_input_t *old_in;
  struct alisp_object *p, *p1;
  char *name;
  int retval = 0, err;

  err = snd_user_file(filename, &name);
  if (err < 0)
    return err;
  old_in = instance->in;
  err = snd_input_stdio_open(&instance->in, name, "r");
  if (err < 0) {
    retval = err;
    goto _err;
  }
  if (instance->verbose)
    lisp_verbose(instance, "** include filename \"%s\"", name);

  for (;;) {
    if ((p = parse_object(instance, 0)) == NULL)
      break;
    if (instance->verbose) {
      lisp_verbose(instance, "** code");
      princ_object(instance->vout, p);
      snd_output_putc(instance->vout, '\n');
    }
    p1 = eval(instance, p);
    if (p1 == NULL) {
      retval = -ENOMEM;
      break;
    }
    if (instance->verbose) {
      lisp_verbose(instance, "** result");
      princ_object(instance->vout, p1);
      snd_output_putc(instance->vout, '\n');
    }
    delete_tree(instance, p1);
  }
  /* _err:
  
  delete_tree(instance, p);
  return retval;
  */
  return retval;
}
if (instance->debug) {
    lisp_debug(instance, "** objects after operation");
    print_obj_lists(instance, instance->dout);
}

snd_input_close(instance->in);
    _err:
free(name);
instance->in = old_in;
return retval;
}

int alsa_lisp(struct alisp_cfg *cfg, struct alisp_instance **instance)
{
    struct alisp_instance *instance;
    struct alisp_object *p, *p1;
    int i, j, retval = 0;

    instance = (struct alisp_instance *)calloc(1, sizeof(struct alisp_instance));
    if (instance == NULL) {
        nomem();
        return -ENOMEM;
    }
    instance->verbose = cfg->verbose && cfg->vout;
    instance->warning = cfg->warning && cfg->wout;
    instance->debug = cfg->debug && cfg->dout;
    instance->in = cfg->in;
    instance->out = cfg->out;
    instance->vout = cfg->vout;
    instance->eout = cfg->eout;
    instance->wout = cfg->wout;
    instance->dout = cfg->dout;
    INIT_LIST_HEAD(&instance->free_objs_list);
    for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {
        for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++)
            INIT_LIST_HEAD(&instance->used_objs_list[i][j]);
        INIT_LIST_HEAD(&instance->setobjs_list[i]);
    }
    init_lex(instance);

    for (;;) {
        if ((p = parse_object(instance, 0)) == NULL)
            break;
        if (instance->verbose) {
            lisp_verbose(instance, "** code");
            princ_object(instance->vout, p);
snd_output_putchar(instance->vout, 'n');
}
p1 = eval(instance, p);
if (p1 == NULL) {
    retval = -ENOMEM;
    break;
}
if (instance->verbose) {
    lisp_verbose(instance, "** result");
    princ_object(instance->vout, p1);
    snd_output_putchar(instance->vout, 'n');
}
delete_tree(instance, p1);
if (instance->debug) {
    lisp_debug(instance, "** objects after operation");
    print_obj_lists(instance, instance->dout);
}
}

if (!_instance)
    *instance = instance;
else
    alsa_lisp_free(instance);

return retval;
}

void alsa_lisp_free(struct alisp_instance *instance)
{
    if (instance == NULL)
        return;
    done_lex(instance);
    free_objects(instance);
    free(instance);
}

struct alisp_cfg *alsa_lisp_default_cfg(snd_input_t *input)
{
    snd_output_t *output, *eoutput;
    struct alisp_cfg *cfg;
    int err;

    err = snd_output_stdio_attach(&output, stdout, 0);
    if (err < 0)
        return NULL;
    err = snd_output_stdio_attach(&eoutput, stderr, 0);
    if (err < 0) {
        snd_output_putchar(output);
    }

    snd_output_putchar(output, 'n');
    return output;
}
return NULL;
}
cfg = calloc(1, sizeof(struct alisp_cfg));
if (cfg == NULL) {
    snd_output_close(eoutput);
snd_output_close(output);
    return NULL;
}
cfg->out = output;
cfg->wout = eoutput;
cfg->eout = eoutput;
cfg->dout = eoutput;
cfg->in = input;
return cfg;
}

void alsa_lisp_default_cfg_free(struct alisp_cfg *cfg)
{
snd_input_close(cfg->in);
snd_output_close(cfg->out);
snd_output_close(cfg->dout);
free(cfg);
}

int alsa_lisp_function(struct alisp_instance *instance, struct alisp_seq_iterator **result,
    const char *id, const char *args, ...)
{
int err = 0;
struct alisp_object *aargs = NULL, *obj, *res;

if (args && *args != 'n') {
    va_list ap;
    struct alisp_object *p;
p = NULL;
    va_start(ap, args);
    while (*args) {
        if (*args++ != '%') {
            err = -EINVAL;
            break;
        }
        if (*args == '0') {
            err = -EINVAL;
            break;
        }
        obj = NULL;
        err = 0;
        switch (*args++) {
            case 's':


obj = new_string(instance, va_arg(ap, char *));
break;
case 'i':
obj = new_integer(instance, va_arg(ap, int));
break;
case 'l':
obj = new_integer(instance, va_arg(ap, long));
break;
case 'f':
case 'd':
obj = new_integer(instance, va_arg(ap, double));
break;
case 'p': {
    char _ptrid[24];
    char *ptrid = _ptrid;
    while (*args && *args != '%')
        *ptrid++ = *args++;
    *ptrid = 0;
    if (ptrid == _ptrid) {
        err = -EINVAL;
        break;
    }
    obj = new_cons_pointer(instance, _ptrid, va_arg(ap, void *));
    obj = quote_object(instance, obj);
    break;
}
default:
    err = -EINVAL;
    break;
}
if (err < 0)
goto __args_end;
if (obj == NULL) {
    err = -ENOMEM;
    goto __args_end;
}
if (p == NULL) {
p = aargs = new_object(instance, ALISP_OBJ_CONS);
} else {
p->value.c.cdr = new_object(instance, ALISP_OBJ_CONS);
p = p->value.c.cdr;
}
if (p == NULL) {
    err = -ENOMEM;
    goto __args_end;
}
p->value.c.car = obj;
}
va_end(ap);
if (err < 0)
  return err;
#if 0
snd_output_printf(instance->wout, ">>>");
princ_object(instance->wout, aargs);
snd_output_printf(instance->wout, "<<<\n");
#endif

err = -ENOENT;
if (aargs == NULL)
aargs = &alsa_lisp_nil;
if ((obj = get_object1(instance, id)) != &alsa_lisp_nil) {
  res = eval_func(instance, obj, aargs);
  err = 0;
} else {
  struct intrinsic key, *item;
  key.name = id;
  if ((item = bsearch(&key, intrinsics,
                         sizeof intrinsics / sizeof intrinsics[0],
                         sizeof intrinsics[0], compar)) != NULL) {
    res = item->func(instance, aargs);
    err = 0;
  } else if ((item = bsearch(&key, snd_intrinsics,
                               sizeof snd_intrinsics / sizeof snd_intrinsics[0],
                               sizeof snd_intrinsics[0], compar)) != NULL) {
    res = item->func(instance, aargs);
    err = 0;
  } else {
    res = &alsa_lisp_nil;
  }
  if (res == NULL)
    err = -ENOMEM;
  if (err == 0 && result) {
    *result = res;
  } else {
    delete_tree(instance, res);
  }
}

return 0;
}

void alsa_lisp_result_free(struct alisp_instance *instance,
                           struct alisp_seq_iterator *result) {
delete_tree(instance, result);
}

int alsa_lisp_seq_first(struct alisp_instance *instance, const char *id,
struct alisp_seq_iterator **seq)
{
struct alisp_object *p1;

p1 = get_object1(instance, id);
if (p1 == NULL)
return -ENOMEM;
*seq = p1;
return 0;
}

int alsa_lisp_seq_next(struct alisp_seq_iterator **seq)
{
struct alisp_object *p1 = *seq;

p1 = cdr(p1);
if (p1 == &alsa_lisp_nil)
return -ENOENT;
*seq = p1;
return 0;
}

int alsa_lisp_seq_count(struct alisp_seq_iterator *seq)
{
int count = 0;

while (seq != &alsa_lisp_nil) {
    count++;
    seq = cdr(seq);
}
return count;
}

int alsa_lisp_seq_integer(struct alisp_seq_iterator *seq, long *val)
{
if (alisp_compare_type(seq, ALISP_OBJ_CONS))
    seq = seq->value.c.cdr;
if (alisp_compare_type(seq, ALISP_OBJ_INTEGER))
    *val = seq->value.i;
else
    return -EINVAL;
return 0;
}
int alsa_lisp_seq_pointer(struct alisp_seq_iterator *seq, const char *ptr_id, void **ptr)
{
    struct alisp_object * p2;

    if (alisp_compare_type(seq, ALISP_OBJ_CONS) &&
        alisp_compare_type(seq->value.c.car, ALISP_OBJ_CONS))
        seq = seq->value.c.car;
    if (alisp_compare_type(seq, ALISP_OBJ_CONS)) {
        p2 = seq->value.c.car;
        if (!alisp_compare_type(p2, ALISP_OBJ_STRING))
            return -EINVAL;
        if (strcmp(p2->value.s, ptr_id))
            return -EINVAL;
        p2 = seq->value.c.cdr;
        if (!alisp_compare_type(p2, ALISP_OBJ_POINTER))
            return -EINVAL;
        *ptr = (void *)seq->value.ptr;
    } else
        return -EINVAL;
    return 0;
}

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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, 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 or use pieces of it in new free programs; and that you know you can do these things.

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

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

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

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

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

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

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

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"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.

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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

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

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

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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
<one line to give the library's name and a brief idea of what it does.>
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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!

1.1085 libutempter 1.1.6 4.el7
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

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

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

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

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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.

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

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

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

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Gocheck - A rich testing framework for Go

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1.1102 aether-api 1.0.2.v20150114

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1.1103 hk2-api 2.5.0-b32

1.1104 threetenbp 1.4.0
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1.1108 hardlink 1.0 19.el7
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1.1110 grub 2.02-0.81.0.1.el7
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Contributions to the urllib3 project

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* 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

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * 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 <graffatcolmimgov@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

* Benjamen 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
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1.1114 tdb 2.6

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1.1115 latencyutils 2.0.3

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1.1116 *libxml 2.9.1-7.el7.0atomix1*

1.1116.1 *Available under license:*

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1.1117 *systemd-shim 10-3~exp2*

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1.1119 spring-boot-starter-reactor-netty 2.0.1

1.1119.1 Available under license:
No license file was found, but licenses were detected in source scan.

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

Found in path(s):

1.1120 protobuf 3.7.1

1.1121 perl 5.16.3-293.el7

1.1121.1 Available under license:

use strict;
use lib 't/lib';
use MBTest;
use DistGen;

Open Source Used In NAE (5.0) Florence Peak (version 5.0) 5.0.1.2 12181
plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#---------------------------------------------------------------#
# Create test distribution
#---------------------------------------------------------------#
{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
    "license 'perl' is valid"
);

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
    "META license URL is correct"
);
}

{
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid"
my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/", "META license URL is correct" );

} # Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
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Version 1, February 1989

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

That's all there is to it!
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>,"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  repository: http://github.com/dagolden/module-build/
  version: 3
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  <signature of Ty Coon>, 1 April 1989
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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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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(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
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4. You may copy and distribute the Library (or a portion or
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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:

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b) Use a suitable shared library mechanism for linking with the
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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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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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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.

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

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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
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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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That's all there is to it!
commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in
<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and
<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems
appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes
are: update paths in sysdeps/mach/hurd/Implies and
sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files,
with the removal of symscalls that were in
sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory
by .c files there.

Tested x86_64. The installed shared libraries are identical before
and after the patch except for libc.so where the move of wait3.c
(included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but
the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from
  sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
  (sigsetmask): Likewise.
  (wait3): Likewise.
  (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/sysv/linux/wait3.c: Update directory of included
  file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/ Versions: Move to ...
* sysdeps/unix/bsd/ Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/ bits/socket.h: Move to ...
* sysdeps/unix/bsd/ bits/socket.h: ... here.
* sysdeps/unix/bsd/bsd4.4/ cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/ cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ sigblock.c: Move to ...
* sysdeps/unix/bsd/ sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ sigsetmask.c: Move to ...
* sysdeps/unix/bsd/ sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ sigvec.c: Move to ...
* sysdeps/unix/bsd/ sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ tcdrain.c: Move to ...
* sysdeps/unix/bsd/ tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ tcgetattr.c: Move to ...
* sysdeps/unix/bsd/ tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ tcsetattr.c: Move to ...
* sysdeps/unix/bsd/ tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ wait.c: Move to ...
* sysdeps/unix/bsd/ wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ wait3.c: Move to ...
* sysdeps/unix/bsd/ wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/ waitpid.c: Move to ...
* sysdeps/unix/bsd/ waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fd1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.

gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/ Versions b/sysdeps/unix/bsd/ Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/ Versions
rename to sysdeps/unix/bsd/ Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/socket.h b/sysdeps/unix/bsd/bits/socket.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/socket.h
rename from sysdeps/unix/bsd/bits/socket.h
rename to sysdeps/unix/bsd/bits/socketaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait4wait4

diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
 similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
 similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
 similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
 similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
# File nameCallerSyscall name# argsStrong nameWeak names
+
+chflags-chflags2chflags
+fchflags-fchflags2fchflags
flock-­flock2__flockflock
getdents-getdirententries4__getdirententriesgetdirententries
getdtsz-getdtablesize0__getdtablesizegetdtablesize
getpagesize-getpagesize0__getpagesizegetpagesize
killpg-­killpg2killpg
-sigblock-sigblock1__sigblocksigblock
+revoke-revoke1revoke
+setlogin-setlogin2setlogin
1.1137 jsr305 3.0.2

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* /opt/ws_local/PERMITS_SQL/1019256554_1594204871.13/0/jsr305-3-0-2-sources-jar/javax/annotation/concurrent/GuardedBy.java
* /opt/ws_local/PERMITS_SQL/1019256554_1594204871.13/0/jsr305-3-0-2-sources-jar/javax/annotation/concurrent/ThreadSafe.java
* /opt/ws_local/PERMITS_SQL/1019256554_1594204871.13/0/jsr305-3-0-2-sources-jar/javax/annotation/concurrent/NotThreadSafe.java
* /opt/ws_local/PERMITS_SQL/1019256554_1594204871.13/0/jsr305-3-0-2-sources-jar/javax/annotation/concurrent/Immutable.java

1.1138 okio 1.13.0

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* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/Options.java
* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/HashingSource.java
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* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/SegmentedByteString.java
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* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/RealBufferedSink.java
* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/BufferedSink.java
* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/ForwardingSink.java
* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/Sink.java
* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/Okio.java
* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/GzipSink.java
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* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/Buffer.java
* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/RealBufferedSource.java
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* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/Source.java
* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/SegmentPool.java
* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/Util.java
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* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/InflaterSource.java
* /opt/ws_local/PERMITS_SQL/1018348639_1594201437.99/0/okio-1-13-0-sources-jar/okio/GzipSource.java

1.1139 maven-resolver-spi 1.4.1
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1.1140 spring-context 5.0.5.RELEASE

1.1141 protobuf-java-format 1.2

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1.1142 spring-cloud-config-client 2.0.0.rc2

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1.1143 spidermonkey 17.0.0-20.el7

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

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1.1151 mongo-java-driver 3.6.2
1.1152 libseccomp 2.4.2-2.el7.0atomix1

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Here a list of files which are distributed with groff but which aren’t
part of it (this is, they either have a non-GPL license, or the copyright
hasn’t been assigned to the FSF).
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

  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.bo
  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

------------

. 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

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

  http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

  http://dante.ctan.org/CTAN/language/hyphenation/svhyph.tex

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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

  http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
  http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex

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. The file `tmac/hyphnenex.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

  http://dante.ctan.org/CTAN/macos/cstex/base/csplain.tar.gz

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Portions of the client are based on code at:
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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>>> azure_go-ansiterm-70bc90b620171e829f1e6d7c17f600c11858d8be
>>> boltdb bolt-b514920f8f2e0a63f8f57e5a12c774f835a59ae9f
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>>> client9_misspell-9a1fc2456ac9e8c9be4be9d005b6e7adac0d357f
>>> codegangsta/inject-33e0a1ec7e019ccc3f8e049a8262a6403d30504
>>> codegangsta_cli-master
>>> cpuguy83_go-md2man_md2man-af65d4d2de4df7c74868da9b2023a3c8be31aaa
>>> d2g_dhcp4-f0e4d29ff023dce36e250bb2ed9ffe0412548fca
>>> deckarep_golang-set-1f0f4ff8d3fbeb9328522093ce71ce35890f67554
>>> Dustin_go-humanize-259d2a102bb871d127f03c3dd981a462961a1e486
>>> gemnasium_logrus-airbrake-hook_v2-31e6f4dbd5a98dd8ee7673d24bc54ec73c31810dd
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>>> go-ns-client-42fca177a36031d64551c751de1daf55dd4f0
>>> godbus_dbus-230e4b23db2df81c53ea0073f76659d4849ce51
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>>> gogo_protobuf_types-6a92c871a8f5333cf106b2cdf937567208dbbb2b
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>>> golang lint-cb00e5669539f047bf2fc53a421a01b0c8e172c6
>>> google_go-github_github-7a51fb928f52a196df531daefb8a489453ef54ff
>>> google_go-querystring_query-53e6c116135b0d037921a7fdd5138cf32d7a8a
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>>> iputils-20151218-4.ph2
>>> krb5-1.16-2.ph2
>>> libarchive-3.3.1-2.ph2
>>> libcap-2.25-7.ph2
>>> libdb-5.3.28-1.ph2
>>> libffi-3.2.1-5.ph2
>>> libolv-0.6.26-3.ph2
>>> libssh2-1.8.0-1.ph2
>>> libtirpc-1.0.1-8.ph2
>>> linux-pam-1.3.0-1.ph2
>>> Isof-4.89-2.ph2
>>> ncurses-6.0-14.ph2
>>> openssl-1.0.2q-1.ph2
>>> openssh-7.5p1-11.ph2
>>> openssl-1.0.2q-1.ph2
>>> pcre-8.41-1.ph2
>>> popt-1.16-5.ph2
>>> shadow-4.2.1-16.ph2
>>> sqlite-3.22.0-3.ph2
>>> sudo-1.8.20p2-5.ph2
>>> vim-8.0.533-6.ph2
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>>> gcc-6.3.0-7.ph2
>>> iproute2-4.10.0-3.ph2
>>> iptables-1.6.1-4.ph2
>>> linux-esx-4.9.154-1.ph2
>>> logrotate-3.11.0-3.ph2
>>> mingetty-1.08-2.ph2
>>> net-tools-1.60-11.ph2
>>> procps-ng-3.3.15-2.ph2
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>>> coreutils-8.27-3.ph2
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>>> haveged-1.9.1-4.ph2
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Go support for leveled logs, analogous to https://code.google.com/google-glog

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>>> codegangsta_cli-master

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>>> cpuguy83_go-md2man_md2man-a65d4d2de4d5f7c74868dfa9b202a3c8be315aaa

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>>> go-martini/martini-22fa46961aabd2665cf3f13433b146d20028f5071

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Go-nfs-client version 0.1

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>>> godbus_dbus-230e4b23db2fd81c53eaa0073f76659d4849ce51

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>>> mreiferson_go-httpclient-31f0106b4474f14bc441575c19d3a5fa21aa1f6c

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>>> smartystreets_assertions-287b4346dc4e71a038c346375a9d572453bc469b

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>>> stretchr_objx-1a9d0bb9f541897e62256577b352fdbc1fb4fd94

objx - by Mat Ryer and Tyler Bunnell

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>>> tomb_v1-dd632973f1e7218eb1089048e0798ec9ae7dceb8

tomb - support for clean goroutine termination in Go.

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>>> x_crypto_nacl_secretbox-728b753d0135da6801d45a38e6f43ff55779c5c2

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```bash
>>> x_tools_go_buildutil-381149a2d6e5d8f319ccf04bfefc71e03a78b868
```

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>>> x_tools_go_gcexportdata-381149a2d6e5d8f319ccf04bfe71e03a78b868

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+build appengine

Package short implements a simple URL shortener, serving an administrative
interface at /s and shortened urls from /s/key.
It is designed to run only on the instance of godoc that serves golang.org.
package short

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lib/gssapi/generic/gssapi_err_generic.et
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
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_gluue.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
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/kpropllog.c

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rijndael-alg-fst.c

@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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cchkconfig: 2345 11 89
description: sets up CBQ-based traffic control

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IPv6 Hop Limit Target module
Maciej Soltysiak <solt@dns.toxicfilms.tv>
Based on HW's ttl target
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Arithmetic Package, Release 2.

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This code offers a very basic support for this EISA bus present in the SGI Indigo-2. It currently only supports PIO (forget about DMA for the time being). This is enough for a low-end ethernet card, but forget about your favorite SCSI card...

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Written by Ian Lance Taylor, Cygnus Support

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```

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A more complete resource is the third edition of "Linux Device Drivers" by Jonathan Corbet, Alessandro Rubini, and Greg Kroah-Hartman. LDD3 is available for free (under Creative Commons License) from:

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However, keep in mind that all documents are subject to "bit rot". Refer to the source code if things are not working as described here.

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mkinstalldirs --- make directory hierarchy
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rpm-4.13.0.2-release/misc/fnmatch.h

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line - read one line


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2.32\misc-utils\uuidparse.c

uuidparse.c --- Interpret uuid encoded information. This program
violates the UUID abstraction barrier by reaching into the
guts of a UUID.

Based on libuuid/src/uuid_time.c
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From Simon Josefsson
-- derivated from coreutils m4/warnings.m4

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2.32\login-utils\setpwnam.c
setpwnam.c -- edit an entry in a password database.

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Edited 11/10/96 (DD/MM/YY ;-) by Nicolai Langfeldt (janl@math.uio.no)
to read /etc/passwd directly so that passwd, chsh and chfn can work on
machines that run NIS (previously YP). Changes will not be made to
usernames starting with +.

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Usage:
1) get a struct passwd from getpwnam().
You should assume a struct passwd has an infinite number of fields, so
you should not try to create one from scratch.
2) edit the fields you want to edit.
3) call setpwnam() with the edited struct passwd.

A *normal user* program should never directly manipulate /etc/passwd but
/use getpwnam() and (family, as well as) setpwnam().

But, setpwnam was made to *edit* the password file. For use by chfn,
chsh and passwd. *I HAVE* to read and write /etc/passwd directly. Let
those who say nay be forever silent and think about how getpwnam (and
family) works on a machine running YP.

Added checks for failure of malloc() and removed error reporting to
stderr, this is a library function and should not print on the screen,
but return appropriate error codes.
27-Jan-97 - poe@daimi.aau.dk

Thanks to "two guys named Ian".

$Author: poe $
$Rev: 1.13 $
$Date: 1997/06/23 08:26:29 $

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Python bindings for the libmount library.

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Written by Ondrej Oprala and Karel Zak

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Bison implementation for Yacc-like parsers in C


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>>> bash-4.4.12-3.ph2

error.c -- Functions for handling errors.

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A Bison parser, made by GNU Bison 3.0.4.

Bison interface for Yacc-like parsers in C


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/ Bison implementation for Yacc-like parsers in C

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(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library $alloca$ function,
which is used to allocate space off the run-time stack so
that it is automatically reclaimed upon procedure exit,
was inspired by discussions with J. Q. Johnson of Cornell.
J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can
be defined when compiling for your specific system, for
improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep
track of all $alloca$-allocated blocks, and reclaim any
that are found to be deeper in the stack than the current
invocation. This heuristic does not reclaim storage as
soon as it becomes invalid, but it will do so eventually.
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Written by Ulrich Drepper <drepper@redhat.com>, 2000.

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alloca.c -- allocate automatically reclaimed memory
(Mostly) portable public-domain implementation -- D A Gwyn

This implementation of the PWB library alloca function, which is used to allocate space off the run-time stack so that it is automatically reclaimed upon procedure exit, was inspired by discussions with J. Q. Johnson of Cornell. J.Otto Tennant <jot@cray.com> contributed the Cray support.

There are some preprocessor constants that can be defined when compiling for your specific system, for improved efficiency; however, the defaults should be okay.

The general concept of this implementation is to keep track of all alloca-allocated blocks, and reclaim any that are found to be deeper in the stack than the current invocation. This heuristic does not reclaim storage as soon as it becomes invalid, but it will do so eventually.

As a special case, alloca(0) reclaims storage without allocating any. It is a good idea to use alloca(0) in your main control loop, etc. to force garbage collection.

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kmod-insert - insert a module into the kernel.

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CTR DRBG with DF with AES-128, AES-192, AES-256 cores
Hash DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
HMAC DRBG with DF with SHA-1, SHA-256, SHA-384, SHA-512 cores
with and without prediction resistance

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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.

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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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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.

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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.

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
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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      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
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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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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.

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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.

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

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

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

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

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Version 3, 29 June 2007

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Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

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SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

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=======================
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This work consists of the files pig.dtx and pig.ins and the derived file pig.sty.

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@import './skin';
@import './layout';
Alex A. Skinner
Andrew Tunnell-Jones
Ask Bjrn Hansen
Dave Cheney
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"`

    // Modules is a list of the licensed enterprise modules
    Modules []string `json:"modules"`

    // List of features enabled by the license
Features []string `json:"features"
"

type LicenseReply struct {
    Valid    bool
    License  *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := 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
}

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# Consul License

Command: `consul license`

```text
Usage: consul license <subcommand> [options] [args]
```

This command has subcommands for managing the Consul Enterprise license. Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

This command has subcommands for managing the Consul Enterprise license

Install a new license from a file:
$ consul license put @consul.license

Install a new license from stdin:

$ consul license put -

Install a new license from a string:

$ consul license put "<license blob>"

Retrieve the current license:

$ consul license get

Reset the current license:

$ consul license reset

For more examples, ask for subcommand help or view the documentation.

Subcommands:
get  Get the current license
put  Puts a new license in the datacenter
reset Resets the license in the datacenter
```
## put

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

#### API Options

@include 'http_api_options_client.mdx'
@include 'http_api_options_server.mdx'

The output looks like this:
```
```
```
```
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

## reset

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid. If the builtin license is invalid, the current one stays active.

Usage: `consul license reset [options]`

#### API Options

@include 'http_api_options_client.mdx'
The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
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// no documentation yet
type Legal_RegulatedWorkload struct {
    Entity

    // no documentation yet
    Account *Account `json:"account,omitempty" xmlrpc:"account,omitempty"

    // no documentation yet
    AccountId *int `json:"accountId,omitempty" xmlrpc:"accountId,omitempty"

    // no documentation yet
    EnabledFlag *bool `json:"enabledFlag,omitempty" xmlrpc:"enabledFlag,omitempty"
// no documentation yet
Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

// no documentation yet
Type *Legal_RegulatedWorkload_Type `json:"type,omitempty" xmlrpc:"type,omitempty"

// no documentation yet
WorkloadTypeId *int `json:"workloadTypeId,omitempty" xmlrpc:"workloadTypeId,omitempty"
}

// no documentation yet
type Legal_RegulatedWorkload_Type struct {
    Entity

    // no documentation yet
    Id *int `json:"id,omitempty" xmlrpc:"id,omitempty"

    // no documentation yet
    KeyName *string `json:"keyName,omitempty" xmlrpc:"keyName,omitempty"

    // no documentation yet
    Name *string `json:"name,omitempty" xmlrpc:"name,omitempty"
}

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SOFTWARE.
The /operator/license endpoints allow for setting and retrieving the Consul Enterprise License.

---

# License - Operator HTTP API

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

### Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for
[blocking queries](/api/features/blocking),
[consistency modes](/api/features/consistency),
[agent caching](/api/features/caching), and
[required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` *(string: "")* - Specifies the datacenter whose license should be retrieved.
  This will default to the datacenter of the agent serving the HTTP request.
  This is specified as a URL query parameter.

### Sample Request

```
$ curl http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```
{
```
"Valid": true,
"License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
    "package": "premium"
  },
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation"
  ],
  "temporary": false
},
"Warnings": []

```
## Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for
[blocking queries](/api/features/blocking),
[consistency modes](/api/features/consistency),
[agent caching](/api/features/caching), and
[required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```shell-session
$ curl \
   --request PUT \
   --data @consul.license \
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```

## Resetting the Consul License
This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: `")"` - Specifies the datacenter whose license should be updated.
  This will default to the datacenter of the agent serving the HTTP request.
  This is specified as a URL query parameter.

### Sample Request

```shell-session
$ curl \
  --request DELETE \
  http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [  
```
"Automated Backups",
"Automated Upgrades",
"Enhanced Read Scalability",
"Network Segments",
"Redundancy Zone",
"Advanced Network Federation"
],
"temporary": false
},
"Warnings": []
}
```

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1.1178 opensaml-storage-impl 3.3.0

1.1179 hystrix-javanica 1.5.12

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/patch/FormatError.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/patch/CombinedHunkHeader.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/treewalk/NameConflictTreeWalk.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/transport/ReceiveCommand.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/patch/CombinedFileHeader.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/util/QuotedString.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/revwalk/filter/SkipRevFilter.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/revwalk/filter/MaxCountRevFilter.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/git/util/BlockList.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/util/io/SafeBufferedOutputStream.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/lib/BranchConfig.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/revwalk/FooterKey.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/util/io/InterruptTimer.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4.11-0-201803080745-r-sources-jar/org/eclipse/jgit/errors/CommandFailedException.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/revwalk/DepthWalk.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/lib/Config.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/transport/NetRC.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/revwalk/RevTag.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/fnmatch/WildCardHead.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/fnmatch/CharacterHead.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/fnmatch/GroupHead.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/fnmatch/GroupHead.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
  jar/org/eclipse/jgit/transport/PacketLineIn.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/git/hooks/PrePushHook.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/git/api/errors/AbortedByHookException.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/git/hooks/GitHook.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/git/hooks/Hooks.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/git/hooks/PostCommitHook.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/git/hooks/PreCommitHook.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/lib/ReflogEntry.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/errors/NoPackSignatureException.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/errors/UnsupportedPackIndexVersionException.java

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*/
/**
 * [@inheritDoc]
 * <p>
 * Free resources associated with this instance.
 * <p>
 * If the repository was opened by a static factory method in this class,
 * then this method calls [@link Repository#close()] on the underlying
 * repository instance. (Whether this actually releases underlying
 * resources, such as file handles, may vary; see [@link Repository] for
 * more details.)
 * <p>
 * If the repository was created by a caller and passed into
 * [@link #Git(Repository)] or a static factory method in this class, then
 * this method does not call close on the underlying repository.
 * <p>
 * In all cases, after calling this method you should not use this
* {@link Git} instance anymore.
* 
* @since 3.2
* /

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/internal/storage/file/PackIndexWriter.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/transport/FetchProcess.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/transport/WalkFetchConnection.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/internal/storage/file/PackIndexWriterV1.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/transport/SideBandInputStream.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/merge/MergeResult.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/merge/MergeAlgorithm.java

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   /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/treewalk/AbstractTreeIterator.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/errors/UnsupportedCredentialItem.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/util/FileUtil.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/annotations/Nullable.java
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jar/org/eclipse/jgit/transport/SignedPushConfig.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/transport/ObjectCountCallback.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/transport/PushCertificateIdent.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/errors/ObjectWritingException.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/api/DeleteBranchCommand.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/api/RenameBranchCommand.java

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  */opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/revwalk/BitmapWalker.java
  */opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/lib/BitmapObject.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/ignore/internal/IMatcher.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
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- /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/transport/resolver/RepositoryResolver.java
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- /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/util/io/StreamCopyThread.java
- /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/transport/resolver/UploadPackFactory.java
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- /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/transport/resolver/ServiceNotEnabledException.java
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jar/org/eclipse/jgit/lib/ FileMode.java
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 * A special exception thrown when [@link AutoLFInputStream] is told to
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 *
 * @since 3.3
 */

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5.0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/internal/storage/file/UnpackedObject.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/lib/BatchRefUpdate.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/revplot/AbstractPlotRenderer.java

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  jar/org/eclipse/jgit/lib/ObjectIdSubclassMap.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
  jar/org/eclipse/jgit/revwalk/RevBlob.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
  jar/org/eclipse/jgit/revwalk/RevTree.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/internal/storage/file/PackReverseIndex.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/transport/PushProcess.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/git/transport/PackParser.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/api/InitCommand.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/api/FetchCommand.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/revwalk/RewriteGenerator.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/revwalk/TreeRevFilter.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/revwalk/RevCommitList.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources.jar/org/eclipse/jgit/revwalk/MergeBaseGenerator.java
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jar/org/eclipse/jgit/notes/NonNoteEntry.java
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jar/org/eclipse/jgit/diff/DiffConfig.java
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jar/org/eclipse/jgit/diff/RenameDetector.java
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jar/org/eclipse/jgit/events/IndexChangedEvent.java
* /opt/ws_local/PERMITS_SQL/1071978997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
jar/org/eclipse/jgit/lib/AsyncOperation.java
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jar/org/eclipse/jgit/transport/UsernamePasswordCredentialsProvider.java
* /opt/ws_local/PERMITS_SQL/1071978997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
jar/org/eclipse/jgit/internal/storage/pack/DeltaIndexScanner.java
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jar/org/eclipse/jgit/internal/storage/file/WriteConfig.java
* /opt/ws_local/PERMITS_SQL/1071978997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
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* /opt/ws_local/PERMITS_SQL/1071978997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
jar/org/eclipse/jgit/transport/CredentialsProviderUserInfo.java
* /opt/ws_local/PERMITS_SQL/1071978997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/ignore/internal/AbstractMatcher.java

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/util/Holder.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/util/io/AutoLFOutputStream.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
  jar/org/eclipse/jgit/transport/PostUploadHook.java
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
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/**
* Fetch objects we don’t have but that are reachable from advertised refs.
* <p>
* Only one call per connection is allowed. Subsequent calls will result in
* {@link org.eclipse.jgit.errors.TransportException}.  
* <p>
* Implementations are free to use network connections as necessary to
* efficiently (for both client and server) transfer objects from the remote
* repository into this repository. When possible implementations should
* avoid replacing/overwriting/duplicating an object already available in
* the local destination repository. Locally available objects and packs
* should always be preferred over remotely available objects and packs.
* [{@link org.eclipse.jgit.transport.Transport#isFetchThin()}] should be
* honored if applicable.
* </p>
*
* @param monitor
* progress monitor to inform the end-user about the amount of
* work completed, or to indicate cancellation. Implementations
* should poll the monitor at regular intervals to look for
* cancellation requests from the user.
* @param want
* one or more refs advertised by this connection that the caller
* wants to store locally.
* @param have
* additional objects known to exist in the destination
* repository, especially if they aren’t yet reachable by the ref
* database. Connections should take this set as an addition to
* what is reachable through all Refs, not in replace of it.
* @throws org.eclipse.jgit.errors.TransportException
* objects could not be copied due to a network failure,
* protocol error, or error on remote side, or connection was
* already used for fetch.
*/

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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/api/PullResult.java

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/**
* A special exception thrown when [@link AutoLFInputStream] is told to
* throw an exception when attempting to read a binary file. The exception
* may be thrown at any stage during reading.
*
* @since 3.3
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/util/io/AutoLFInputStream.java
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-
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* /opt/ws_local/PERMITS_SQL/1071987997_1594968008.5/0/org-eclipse-jgit-4-11-0-201803080745-r-sources-jar/org/eclipse/jgit/attributes/AttributesNode.java

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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
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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

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

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

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1.1200 jackson-module-parameter-names
2.9.3

1.1201 pyxattr 0.5.1 5.el7
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