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# 1.3 akka-actor\_2.11\_jakarta-oro-2.0.8 2.3.9

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## 1.4 alsa-lib 1.0.28 :2.e17

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*
* // Use like so:
* htmlParser(htmlString, {
*   start: function(tag, attrs, unary) {},
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```

```
* chars: function(text) {},
* comment: function(text) {}
* });
*
*/
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# 1.7 AngularJS\_MPL1.0 1.1.5

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 *
 * // Use like so:
 * htmlParser(htmlString, {
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 *   end: function(tag) {},
 *   chars: function(text) {},
 *   comment: function(text) {}
 * });
 */
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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd

- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

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Upstream-Name: AppArmor

Upstream-Contact: [apparmor@lists.ubuntu.com](mailto:apparmor@lists.ubuntu.com)

Source: <https://launchpad.net/apparmor>

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## 1.20 atk 2.14.0 :1.e17

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// File : FillNode.aspx
// Author : Eric Woodruff (Eric@EWoodruff.us)
// Updated : 04/02/2008
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// Compiler: Microsoft C#
//
// This file contains the code used to dynamically load a parent node with its
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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`,

admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

## 1.25 bind 9.9.5

### 1.25.1 Available under license :

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```

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<!-- $Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

```

```

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

```

```

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

```

```

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

```

```

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

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    PERFORMANCE OF THIS SOFTWARE.
  </xsl:text>
</xsl:variable>

```

```

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

```

```
</xsl:stylesheet>
```

```
<!--
```

```
- Local variables:
```

```
- mode: sgml
```

```
- End:
```

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-->
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Automated Testing Framework
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License
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\* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp: These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

## 1.26 binutils 2.25.1

### 1.26.1 Available under license :

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Version 3, 29 June 2007

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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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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```

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<signature of Ty Coon>, 1 April 1990  
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for conveying Corresponding Source.)

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(This file is under construction.) -\*- text -\*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, [nickc@redhat.com](mailto:nickc@redhat.com) and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS

file, as requested by the FSF.

+++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

targets.

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made `gas` able to generate listings.

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

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

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

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

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

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

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

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

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using

patches from the work of Martynas Kunigelis and H.J. Lu.

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

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@center Version 2.1, February 1999

@display

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@end display

@appendixsubsec Preamble

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

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

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

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```
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@item

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@enumerate a

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@end enumerate

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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.

@item

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

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

@item

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

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file

that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

#### @item

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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#### @item

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

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

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

@item

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.

@item

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

@end enumerate

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.

@item

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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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.

@item

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.

@end enumerate

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@end enumerate

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@heading END OF TERMS AND CONDITIONS

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@center END OF TERMS AND CONDITIONS

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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

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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.

```
@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

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```
@end smallexample
```

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

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

```
@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

That's all there is to it!

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Version 2.1, February 1999

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

To protect each distributor, we want to make it very clear that



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

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

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

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

operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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

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.
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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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- 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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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## 1.27 boost 1.59.0 :1.59

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

#### HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX



systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(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.) This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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```
"GNU Parser Licence"  
  
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```

```
ECHO = /bin/echo
```

```
all:
```

```
@${ECHO} "<boost-root>/libs/iterator/doc/GNUMakefile should be replaced by"  
@${ECHO}  
@${ECHO} " http://www.boost-consulting.com/writing/GNUMakefile,"  
@${ECHO}  
@${ECHO} "before proceeding. That file is not included in the Boost"  
@${ECHO} "distribution because it is licensed under the GPL, which violates"  
@${ECHO} "Boost license requirements."
```

## 1.28 Botan 1.10.12

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```
.. _license:  
.. highlight:: none
```

```
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```

```
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```

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## 1.29 bzip2 1.0.5

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)  
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/\*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo ([tsuneo@rr.iij4u.or.jp](mailto:tsuneo@rr.iij4u.or.jp))

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```

usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/
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# 1.50 commons-dbcpr 1.4

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It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

- \* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
- \* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

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

## 1.62 cpio 2.11 :r3

### 1.62.1 Available under license :

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

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

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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

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

```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <<http://www.gnu.org/licenses/>>.

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## 1.63 cracklib 2.9.2

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

-- Nathan  
=20  
-----

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

> -----Original Message-----

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

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

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

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

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

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

Re: [Cracklib-devel] cracklib license  
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46  
Seems like the ideal thing here would be for you and the other distro  
maintainers to get together with Alec in a conversation and come to a

decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

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

> -----Original Message-----

> From: cracklib-devel-bounces@li...  
> [mailto:cracklib-devel-bounces@li...] On Behalf Of  
> Mike Frysinger  
> Sent: Monday, October 01, 2007 8:33 PM  
> To: Neulinger, Nathan  
> Cc: cracklib-devel@li...; Alec Muffett  
> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:  
> > I understand that, and you're welcome to bring it up with Alec  
> directly  
> > and see if he wants to relicense his code as LGPL... but at this  
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> > it was enough to just get it consistent and documented as to what  
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> > released under. This wasn't actually a license change, just a  
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>=20

> the original license (before moving to sourceforge -- aka, 2.7) was  
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> license  
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>=20

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

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro  
> maintainers to get together with Alec in a conversation and come to a  
> decision as to what licensing scheme y'all want. I haven't really done  
> much other than cleaning up the packaging and patches and a small  
> bit of  
> additional code, so whatever licensing y'all come up with is fine  
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's  
best interests to have as secure systems as possible, and I think tainting  
it via GPL will just make it less likely that the library gets used, and  
will not usually cause companies/developers to GPL the dependent code  
(where it is not already GPL).

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

Devin

--

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

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro  
>> maintainers to get together with Alec in a conversation and come to a  
>> decision as to what licensing scheme y'all want. I haven't really done  
>> much other than cleaning up the packaging and patches and a small  
>> bit of  
>> additional code, so whatever licensing y'all come up with is fine  
>> by me.  
>  
> I am sympathetic. Guys, what do you reckon?  
>  
> What I am hearing so far is that LGPL makes sense, since it can be  
> linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro  
>>> maintainers to get together with Alec in a conversation and come to a  
>>> decision as to what licensing scheme y'all want. I haven't really done  
>>> much other than cleaning up the packaging and patches and a small  
>>> bit of  
>>> additional code, so whatever licensing y'all come up with is fine  
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

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

>

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

>

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

>

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

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

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

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

>

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

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

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

> >

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

>

> yes. go for it. thanks++

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

-mike

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

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

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

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



-----

From alecm@crypticide.com Mon Oct 1 12:26:03 2007  
Received: from umr-exproto2.cc.umn.edu ([131.151.0.192]) by UMR-CMAIL1.umn.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.umn.edu with Microsoft SMTPSVC(6.0.3790.3959);  
Mon, 1 Oct 2007 12:26:02 -0500  
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000  
Received: from smtp1.srv.mst.edu (131.151.1.43)  
by scanin-ipv6.cc.umn.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 191Gxtp020623  
for <nneul@umn.edu>; Mon, 1 Oct 2007 11:59:55 -0500  
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])  
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311  
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)  
Received: from [82.68.43.14] (helo=[192.168.1.3])  
by rutherford.zen.co.uk with esmtp (Exim 4.50)  
id 1IcOcX-0004Qt-6L  
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000  
Mime-Version: 1.0 (Apple Message framework v752.2)  
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
References: <1190922867.3457.147.camel@localhost.localdomain>  
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umn.edu>  
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>  
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed  
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>  
Content-Transfer-Encoding: 7bit  
From: Alec Muffett <alecm@crypticide.com>  
Subject: Re: cracklib license  
Date: Mon, 1 Oct 2007 17:59:46 +0100  
To: Nathan Neulinger <nneul@neulinger.org>  
X-Mailer: Apple Mail (2.752.2)  
X-Originating-Rutherford-IP: [82.68.43.14]  
Return-Path: alecm@crypticide.com  
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]  
Status: RO  
Content-Length: 585  
Lines: 21

>  
> ----- Forwarded message -----  
> From: Neulinger, Nathan <nneul@umn.edu>  
> Date: Sep 27, 2007 2:58 PM  
> Subject: RE: cracklib license

> To: alecm@crypto.dircon.co.uk  
>  
> Any chance you could write me a self-contained email stating clearly  
> that the license is being changed to GPL, so I could include that  
> email  
> in the repository and clean up the repository/tarballs? I have all the  
> original discussion, but something succinct and self contained  
> would be  
> ideal.

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

Happy now? :-)

-a

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Version 2.1, February 1999

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strategy to use in any particular case, based on the explanations  
below.

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^L

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

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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.

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

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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.)

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

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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.

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subsequent copies and derivative works made from that copy.

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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Upstream-Name: vixie-cron

Ustream-Contact: Paul Vixie <paul@vix.com>

Source:

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Files: \*

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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[This is the first released version of the library GPL. It is  
numbered 2 because it goes with version 2 of the ordinary GPL.]

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

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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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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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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#### Appendix: How to Apply These Terms to Your New Libraries

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

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

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usr/sbin/lpc

usr/bin/lpq

usr/bin/lpr

usr/bin/lprm

usr/share/man/man1/lpr.1.gz

usr/share/man/man1/lprm.1.gz

usr/share/man/man1/lpq.1.gz

usr/share/man/man8/lpc.8.gz

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

Upstream-Name: CUPS

Upstream-Contact: Michael Sweet <[msweet@apple.com](mailto:msweet@apple.com)>

Source: <ftp://ftp.easysw.com/pub/cups/>

Files: \*

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## 1.66 curl 7.38.0-4+deb8u2

### 1.66.1 Available under license :

License Mixing with apps, libcurl and Third Party Libraries

=====

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl <http://curl.haxx.se/docs/copyright.html>

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL <http://www.openssl.org/source/license.html>

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS <http://www.gnutls.org/>

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl <http://www.yassl.com/>

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS <http://www.mozilla.org/projects/security/pki/nss/>

(May be used for SSL/TLS support) Is covered by the MPL[4] license, the GPL[1] license and the LGPL[3] license. You may choose to license the code under MPL terms, GPL terms, or LGPL terms. These licenses grant you different permissions and impose different obligations. You should select the license that best meets your needs.

axTLS <http://axtls.sourceforge.net/>

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib [http://www.gzip.org/zlib/zlib\\_license.html](http://www.gzip.org/zlib/zlib_license.html)

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal <http://www.pdc.kth.se/heimdal/>

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS <http://www.gnu.org/software/gss/>

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libidn <http://josefsson.org/libidn/>

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP <http://www.openldap.org/software/release/license.html>

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 <http://www.libssh2.org/>

(Used for scp and sftp support) libssh2 uses a Modified BSD-style

license.

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

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## 1.77 dhcp 4.3.2

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```

```

<!-- $Id: copyright.xml,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

```

```

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

```

```

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

```

```

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

```

```

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

```

```

</xsl:variable>

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

```

```
</xsl:stylesheet>
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- Local variables:
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- mode: sgml
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- End:
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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

```
=====
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```
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```

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

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Index: tdbsa/tdb.c

```
=====
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell      2005
+ Copyright (C) Andrew Tridgell      1999-2005
+ Copyright (C) Jeremy Allison      2000-2006
+ Copyright (C) Paul `Rusty' Russell  2000

** NOTE! The following LGPL license applies to the tdb
** library. This does NOT imply that all of Samba is released
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```



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

```
install-shlibs install:: $(BSD_LIB)
```

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

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

```
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

```
uninstall-shlibs uninstall::
```

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

```
clean::
```

```
$(RM) -rf pic
```

```
$(RM) -f $(BSD_LIB)
```

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

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Follows the GNU license.

Gadi Oxman, August 1995

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Version 2, June 1991

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```
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```

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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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#

# 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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Gadi Oxman, August 1995

```

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Theodore Ts'o

23-June-2007

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## 1.82 ecj 3.5.1

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## 1.83 elfutils 0.159-4.2

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## 1.89 fastjar 0.98-3 :2009-09-06 Arthur Loiret

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/\* Memory allocation on the stack.

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# 1.95 fuse 2.9.3

## 1.95.1 Available under license :

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 */
```

By plainly marking modifications, something along the lines of adding to each file that has been changed a "Modified by Foo Bar" line underneath the "Written by" line would be adequate.

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Version 2.1, February 1999

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Version 3.1, 31 March 2009

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/\* Software floating-point emulation.

Convert a 32bit unsigned integer to IEEE double

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```
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## 1.101 glib-2.0 2.42.1

### 1.101.1 Available under license :

```
/*  
* Perl-Compatible Regular Expressions *  
*/
```

```
/* This is the public header file for the PCRE library, to be #included by  
applications that call the PCRE functions.
```

-----  
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-----  
\*/

```
#ifndef _PCRE_H  
#define _PCRE_H
```

```
/* The current PCRE version information. */
```

```
#define PCRE_MAJOR      8  
#define PCRE_MINOR     31  
#define PCRE_PRERELEASE  
#define PCRE_DATE      2012-07-06
```

```
/* When an application links to a PCRE DLL in Windows, the symbols that are  
imported have to be identified as such. When building PCRE, the appropriate  
export setting is defined in pcre_internal.h, which includes this file. So we  
don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */
```

```
#if defined(_WIN32) && !defined(PCRE_STATIC)  
# ifndef PCRE_EXP_DECL
```

```

# define PCRE_EXP_DECL extern __declspec(dllimport)
# endif
# ifdef __cplusplus
#   ifndef PCRECPP_EXP_DECL
#     define PCRECPP_EXP_DECL extern __declspec(dllimport)
#   endif
#   ifndef PCRECPP_EXP_DEFN
#     define PCRECPP_EXP_DEFN __declspec(dllimport)
#   endif
# endif
#endif

/* By default, we use the standard "extern" declarations. */

#ifndef PCRE_EXP_DECL
# ifdef __cplusplus
#   define PCRE_EXP_DECL extern "C"
# else
#   define PCRE_EXP_DECL extern
# endif
#endif

#ifdef __cplusplus
# ifndef PCRECPP_EXP_DECL
#   define PCRECPP_EXP_DECL extern
# endif
# ifndef PCRECPP_EXP_DEFN
#   define PCRECPP_EXP_DEFN
# endif
#endif

/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */

#include <stdlib.h>

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

/* Options. Some are compile-time only, some are run-time only, and some are
both, so we keep them all distinct. However, almost all the bits in the options
word are now used. In the long run, we may have to re-use some of the
compile-time only bits for runtime options, or vice versa. In the comments
below, "compile", "exec", and "DFA exec" mean that the option is permitted to
be set for those functions; "used in" means that an option may be set only for

```

compile, but is subsequently referenced in exec and/or DFA exec. Any of the compile-time options may be inspected during studying (and therefore JIT compiling). \*/

```
#define PCRE_CASELESS      0x00000001 /* Compile */
#define PCRE_MULTILINE    0x00000002 /* Compile */
#define PCRE_DOTALL       0x00000004 /* Compile */
#define PCRE_EXTENDED     0x00000008 /* Compile */
#define PCRE_ANCHORED     0x00000010 /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY 0x00000020 /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA        0x00000040 /* Compile */
#define PCRE_NOTBOL       0x00000080 /* Exec, DFA exec */
#define PCRE_NOTEOL       0x00000100 /* Exec, DFA exec */
#define PCRE_UNGREEDY     0x00000200 /* Compile */
#define PCRE_NOTEMPTY     0x00000400 /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8         0x00000800 /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16        0x00000800 /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE 0x00001000 /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT 0x00004000 /* Compile */
#define PCRE_PARTIAL_SOFT 0x00008000 /* Exec, DFA exec */
#define PCRE_PARTIAL      0x00008000 /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST 0x00010000 /* DFA exec */
#define PCRE_DFA_RESTART  0x00020000 /* DFA exec */
#define PCRE_FIRSTLINE     0x00040000 /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES      0x00080000 /* Compile */
#define PCRE_NEWLINE_CR    0x00100000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF    0x00200000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF  0x00300000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY   0x00400000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF 0x00500000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF   0x00800000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE   0x01000000 /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000 /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000 /* Synonym */
#define PCRE_PARTIAL_HARD  0x08000000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x10000000 /* Exec, DFA exec */
#define PCRE_UCP           0x20000000 /* Compile, used in exec, DFA exec */

/* Exec-time and get/set-time error codes */

#define PCRE_ERROR_NOMATCH (-1)
#define PCRE_ERROR_NULL   (-2)
#define PCRE_ERROR_BADOPTION (-3)
```

```

#define PCRE_ERROR_BADMAGIC      (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE  (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY      (-6)
#define PCRE_ERROR_NOSUBSTRING   (-7)
#define PCRE_ERROR_MATCHLIMIT    (-8)
#define PCRE_ERROR_CALLOUT       (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8       (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16      (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL       (-12)
#define PCRE_ERROR_BADPARTIAL    (-13)
#define PCRE_ERROR_INTERNAL      (-14)
#define PCRE_ERROR_BADCOUNT     (-15)
#define PCRE_ERROR_DFA_UITEM     (-16)
#define PCRE_ERROR_DFA_UCOND     (-17)
#define PCRE_ERROR_DFA_UMLIMIT   (-18)
#define PCRE_ERROR_DFA_WSSIZE    (-19)
#define PCRE_ERROR_DFA_RECURSE  (-20)
#define PCRE_ERROR_RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT   (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE    (-23)
#define PCRE_ERROR_BADOFFSET     (-24)
#define PCRE_ERROR_SHORTUTF8     (-25)
#define PCRE_ERROR_SHORTUTF16    (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP  (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE       (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)

```

/\* Specific error codes for UTF-8 validity checks \*/

```

#define PCRE_UTF8_ERR0      0
#define PCRE_UTF8_ERR1      1
#define PCRE_UTF8_ERR2      2
#define PCRE_UTF8_ERR3      3
#define PCRE_UTF8_ERR4      4
#define PCRE_UTF8_ERR5      5
#define PCRE_UTF8_ERR6      6
#define PCRE_UTF8_ERR7      7
#define PCRE_UTF8_ERR8      8
#define PCRE_UTF8_ERR9      9
#define PCRE_UTF8_ERR10     10
#define PCRE_UTF8_ERR11     11
#define PCRE_UTF8_ERR12     12
#define PCRE_UTF8_ERR13     13

```

```

#define PCRE_UTF8_ERR14      14
#define PCRE_UTF8_ERR15      15
#define PCRE_UTF8_ERR16      16
#define PCRE_UTF8_ERR17      17
#define PCRE_UTF8_ERR18      18
#define PCRE_UTF8_ERR19      19
#define PCRE_UTF8_ERR20      20
#define PCRE_UTF8_ERR21      21

/* Specific error codes for UTF-16 validity checks */

#define PCRE_UTF16_ERR0       0
#define PCRE_UTF16_ERR1       1
#define PCRE_UTF16_ERR2       2
#define PCRE_UTF16_ERR3       3
#define PCRE_UTF16_ERR4       4

/* Request types for pcre_fullinfo() */

#define PCRE_INFO_OPTIONS      0
#define PCRE_INFO_SIZE         1
#define PCRE_INFO_CAPTURECOUNT  2
#define PCRE_INFO_BACKREFMAX    3
#define PCRE_INFO_FIRSTBYTE     4
#define PCRE_INFO_FIRSTCHAR     4 /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE    5
#define PCRE_INFO_LASTLITERAL   6
#define PCRE_INFO_NAMEENTRYSIZE  7
#define PCRE_INFO_NAMECOUNT    8
#define PCRE_INFO_NAMETABLE     9
#define PCRE_INFO_STUDYSIZE     10
#define PCRE_INFO_DEFAULT_TABLES 11
#define PCRE_INFO_OKPARTIAL     12
#define PCRE_INFO_JCHANGED      13
#define PCRE_INFO_HASCORRLF     14
#define PCRE_INFO_MINLENGTH     15
#define PCRE_INFO_JIT           16
#define PCRE_INFO_JITSIZE       17
#define PCRE_INFO_MAXLOOKBEHIND 18

/* Request types for pcre_config(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_CONFIG_UTF8        0
#define PCRE_CONFIG_NEWLINE     1
#define PCRE_CONFIG_LINK_SIZE  2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT 4

```

```

#define PCRE_CONFIG_STACKRECURSE      5
#define PCRE_CONFIG_UNICODE_PROPERTIES 6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION 7
#define PCRE_CONFIG_BSR                8
#define PCRE_CONFIG_JIT                9
#define PCRE_CONFIG_UTF16              10
#define PCRE_CONFIG_JITTARGET          11

/* Request types for pcre_study(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_STUDY_JIT_COMPILE          0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE 0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE 0x0004

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine
these bits, just add new ones on the end, in order to remain compatible. */

#define PCRE_EXTRA_STUDY_DATA          0x0001
#define PCRE_EXTRA_MATCH_LIMIT         0x0002
#define PCRE_EXTRA_CALLOUT_DATA       0x0004
#define PCRE_EXTRA_TABLES              0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION 0x0010
#define PCRE_EXTRA_MARK                0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT     0x0040

/* Types */

struct real_pcre;          /* declaration; the definition is private */
typedef struct real_pcre pcre;

struct real_pcre16;       /* declaration; the definition is private */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16

```

```

#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */

#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in
such a way as to be extensible. Always add new fields at the end, in order to
remain compatible. */

typedef struct pcre_extra {
  unsigned long int flags;      /* Bits for which fields are set */
  void *study_data;           /* Opaque data from pcre_study() */
  unsigned long int match_limit; /* Maximum number of calls to match() */
  void *callout_data;         /* Data passed back in callouts */
  const unsigned char *tables; /* Pointer to character tables */
  unsigned long int match_limit_recursion; /* Max recursive calls to match() */
  unsigned char **mark;        /* For passing back a mark pointer */
  void *executable_jit;        /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_extra {
  unsigned long int flags;      /* Bits for which fields are set */
  void *study_data;           /* Opaque data from pcre_study() */
  unsigned long int match_limit; /* Maximum number of calls to match() */
  void *callout_data;         /* Data passed back in callouts */
  const unsigned char *tables; /* Pointer to character tables */
  unsigned long int match_limit_recursion; /* Max recursive calls to match() */
  PCRE_UCHAR16 **mark;        /* For passing back a mark pointer */
  void *executable_jit;        /* Contains a pointer to a compiled jit code */
} pcre16_extra;

/* The structure for passing out data via the pcre_callout_function. We use a
structure so that new fields can be added on the end in future versions,
without changing the API of the function, thereby allowing old clients to work
without modification. */

typedef struct pcre_callout_block {
  int version;                /* Identifies version of block */
  /* ----- Version 0 ----- */
  int callout_number;         /* Number compiled into pattern */

```



```

int     *offset_vector; /* The offset vector */
PCRE_SPTR subject;     /* The subject being matched */
int     subject_length; /* The length of the subject */
int     start_match;    /* Offset to start of this match attempt */
int     current_position; /* Where we currently are in the subject */
int     capture_top;    /* Max current capture */
int     capture_last;   /* Most recently closed capture */
void    *callout_data;  /* Data passed in with the call */
/* ----- Added for Version 1 ----- */
int     pattern_position; /* Offset to next item in the pattern */
int     next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const unsigned char *mark; /* Pointer to current mark or NULL */
/* ----- */
} pcre_callout_block;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_callout_block {
int     version;        /* Identifies version of block */
/* ----- Version 0 ----- */
int     callout_number; /* Number compiled into pattern */
int     *offset_vector; /* The offset vector */
PCRE_SPTR16 subject;   /* The subject being matched */
int     subject_length; /* The length of the subject */
int     start_match;    /* Offset to start of this match attempt */
int     current_position; /* Where we currently are in the subject */
int     capture_top;    /* Max current capture */
int     capture_last;   /* Most recently closed capture */
void    *callout_data;  /* Data passed in with the call */
/* ----- Added for Version 1 ----- */
int     pattern_position; /* Offset to next item in the pattern */
int     next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const PCRE_UCHAR16 *mark; /* Pointer to current mark or NULL */
/* ----- */
} pcre16_callout_block;

/* Indirection for store get and free functions. These can be set to
alternative malloc/free functions if required. Special ones are used in the
non-recursive case for "frames". There is also an optional callout function
that is triggered by the (?) regex item. For Virtual Pascal, these definitions
have to take another form. */

#ifdef VPCOMPAT
PCRE_EXP_DECL void>(*pcre_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_free)(void *);
PCRE_EXP_DECL void>(*pcre_stack_malloc)(size_t);

```

```

PCRE_EXP_DECL void (*pcre_stack_free)(void *);
PCRE_EXP_DECL int (*pcre_callout)(pcre_callout_block *);

PCRE_EXP_DECL void (*pcre16_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_free)(void *);
PCRE_EXP_DECL void (*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int (*pcre16_callout)(pcre16_callout_block *);
#else /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void pcre_stack_free(void *);
PCRE_EXP_DECL int pcre_callout(pcre_callout_block *);

PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE_EXP_DECL void pcre16_free(void *);
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE_EXP_DECL void pcre16_stack_free(void *);
PCRE_EXP_DECL int pcre16_callout(pcre16_callout_block *);
#endif /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */

typedef pcre_jit_stack (*pcre_jit_callback)(void *);
typedef pcre16_jit_stack (*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
    const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
    const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL int pcre_config(int, void *);
PCRE_EXP_DECL int pcre16_config(int, void *);
PCRE_EXP_DECL int pcre_copy_named_substring(const pcre *, const char *,
    int *, int, const char *, char *, int);
PCRE_EXP_DECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_copy_substring(const char *, int *, int, int,
    char *, int);
PCRE_EXP_DECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
    PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_dfa_exec(const pcre *, const pcre_extra *,

```

```

    const char *, int, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int *, int *, int);
PCRE_EXP_DECL int pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
    int, int, int, int *, int);
PCRE_EXP_DECL int pcre16_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_fullinfo(const pcre *, const pcre_extra *, int,
    void *);
PCRE_EXP_DECL int pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
    void *);
PCRE_EXP_DECL int pcre_get_named_substring(const pcre *, const char *,
    int *, int, const char *, const char **);
PCRE_EXP_DECL int pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int pcre_get_stringtable_entries(const pcre *, const char *,
    char **, char **);
PCRE_EXP_DECL int pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
    PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int pcre_get_substring(const char *, int *, int, int,
    const char **);
PCRE_EXP_DECL int pcre16_get_substring(PCRE_SPTR16, int *, int, int,
    PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_substring_list(const char *, int *, int,
    const char ***);
PCRE_EXP_DECL int pcre16_get_substring_list(PCRE_SPTR16, int *, int,
    PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int pcre_refcount(pcre *, int);
PCRE_EXP_DECL int pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXP_DECL int pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
    const unsigned char *);
PCRE_EXP_DECL int pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,

```

```

        const unsigned char *);
PCRE_EXP_DECL int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
        PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
        pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
        pcre16_jit_callback, void *);

#ifdef __cplusplus
} /* extern "C" */
#endif

```

```

#endif /* End of pcre.h */

```

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

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## 1.102 glibc 2.19-18+deb8u1

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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# 1.104 gnupg 1.4.18-7

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

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```
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Upstream-Contact: Werner Koch <[wk@gnupg.org](mailto:wk@gnupg.org)>

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```
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## Constant-time SSSE3 AES core implementation.  
## version 0.1  
##  
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```
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```

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## 1.106 golang 1-5

### 1.106.1 Available under license :

Source: <https://go.googlecode.com/hg/>

Files: \*

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Files: include/\*, src/lib9/\*, src/libbio/\*, src/pkg/runtime/386/\*,  
src/libmach/\*, src/pkg/runtime/arm/vlop.s, src/pkg/runtime/arm/vlrt.c,



src/pkg/runtime/arm/memset.s, src/pkg/runtime/arm/memmove.s,  
src/pkg/runtime/amd64/memmove.s, src/pkg/runtime/amd64/memmove.s,  
src/pkg/math/fltasm\_amd64.s, src/cmd/6c/txt.c, src/cmd/gopack/ar.c,  
src/cmd/ld/lib.[ch], src/cmd/6a/a.[yh], src/cmd/6a/lex.c,  
src/cmd/5g/gobj.c, src/cmd/5g/list.c, src/cmd/5g/gsubr.c,  
src/cmd/5g/opt.h, src/cmd/8c/\*, src/cmd/goyacc/goyacc.go,  
src/cmd/5l/\*, src/cmd/6g/reg.c, src/cmd/6g/gobj.c,  
src/cmd/6g/peep.c, src/cmd/6g/list.c, src/cmd/6g/gsubr.c,  
src/cmd/6g/opt.c, src/cmd/8l/\*, src/cmd/nm/nm.c,  
src/cmd/gc/bits.c, src/cmd/cc/\*, src/cmd/5a/\*, src/cmd/8g/reg.c,  
src/cmd/8g/gobj.c, src/cmd/8g/peep.c, src/cmd/8g/list.c,  
src/cmd/8g/gsubr.c, src/cmd/8g/opt.h, src/cmd/5c/\*, src/cmd/6l/\*,  
src/cmd/8a/\*

Origin: Plan 9 from User Space include/, src/lib9/, src/libmach/  
Inferno utils/include/, utils/libmach/, utils/6c/, utils/iar/,  
utils/6l/, utils/6a/, utils/5c/, utils/8c/, utils/iyacc/,  
utils/5l/, utils/6c/, utils/8l/, utils/nm/, utils/cc/,  
utils/5a/, utils/8a/, lib9/, libkern/, libbio/

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Files: src/lib9/goos.c, src/lib9/win32.c, src/lib9/Makefile,  
src/pkg/runtime/386/asm.s, src/pkg/runtime/386/closure.c,  
src/pkg/runtime/arm/asm.s, src/pkg/runtime/arm/closure.c,  
src/pkg/runtime/arm/cas5.s, src/libmach/fakeobj.c,  
src/libmach/macho.h, src/cmd/6c/doc.go, src/cmd/6c/Makefile,  
src/cmd/8c/doc.go, src/cmd/8c/Makefile, src/cmd/5l/doc.go,  
src/cmd/5l/softfloat.c, src/cmd/5l/Makefile, src/cmd/8l/doc.go,  
src/cmd/8l/Makefile, src/cmd/cc/doc.go, src/cmd/cc/Makefile,  
src/cmd/5a/doc.go, src/cmd/5a/Makefile, src/cmd/5c/doc.go,  
src/cmd/5c/Makefile, src/cmd/6l/doc.go, src/cmd/6l/Makefile,  
src/cmd/8a/doc.go, src/cmd/8a/Makefile

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Files: include/fmt.h, src/lib9/utf/\*, src/lib9/fmt/\*,  
src/pkg/runtime/rune.c

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Files: src/lib9/utf/mkrunetype.c

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Files: src/cmd/cov/tree.[ch]

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Files: src/cmd/prof/goprof

Origin: based on src/pprof from google-perftools

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Notes:

This is a copy of <http://google-perftools.googlecode.com/svn/trunk/src/pprof>  
with local modifications to handle generation of SVG images and  
the Go-style pprof paths. These modifications will probably filter  
back into the official source before long.

It's convenient to have a copy here because we need just the one  
Perl script, not all the C++ libraries that surround it.

Files: src/pkg/runtime/tiny/bootblock

Origin: Xv6 rev3

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Files: src/pkg/debug/dwarf/testdata/typedef.macho,

src/pkg/debug/dwarf/testdata/typedef.elf

Source: src/pkg/debug/dwarf/testdata/typedef.c

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Files: src/pkg/debug/macho/testdata/gcc-amd64-darwin-exec-debug,  
src/pkg/debug/macho/testdata/gcc-386-darwin-exec,  
src/pkg/debug/macho/testdata/gcc-amd64-darwin-exec,  
src/pkg/debug/elf/testdata/go-relocation-test-gcc424-x86-64.o,  
src/pkg/debug/elf/testdata/gcc-amd64-linux-exec,  
src/pkg/debug/elf/testdata/go-relocation-test-gcc441-x86.o,  
src/pkg/debug/elf/testdata/gcc-386-freebsd-exec,  
src/pkg/debug/elf/testdata/go-relocation-test-gcc441-x86-64.o  
Source: ?

Files: src/pkg/debug/elf/elf.go, src/cmd/ld/elf.h  
Origin: FreeBSD src/sys/sys/elf{32,64,\_common}.h, src/sys/\*/include/elf.h  
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Files: src/pkg/math/log1p.go  
Origin: Translated and simplified from FreeBSD /usr/src/lib/msun/src/s\_log1p.c  
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The original C code, the long comment, and the constants  
below are from FreeBSD's /usr/src/lib/msun/src/s\_log1p.c  
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.  
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Files: src/pkg/image/jpeg/idct.go  
Origin: Translated from idct.c in the MPEG-2 (ISO/IEC 13818-4)  
technical report video software verifier (mpeg2decode)  
version 960109  
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Files: src/pkg/exp/spacewar/pdp1.go, src/pkg/exp/spacewar/spacewar.go  
Origin: Translated from the Java emulator pdp1.java in Spacewar!  
Copyright: 1996 Barry Silverman, Brian Silverman, Vadim Gerasimov.  
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Files: src/pkg/exp/spacewar/code.go

Origin: The original Spacewar!

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This file contains the assembly language and machine code for Spacewar!, the original PDP-1 video game. It is downloaded from <http://spacewar.oversigma.com/sources/sources.zip> which has the following notice at <http://spacewar.oversigma.com/>:

Spacewar! was conceived in 1961 by Martin Graetz, Stephen Russell, and Wayne Wiitanen. It was first realized on the PDP-1 in 1962 by Stephen Russell, Peter Samson, Dan Edwards, and Martin Graetz, together with Alan Kotok, Steve Piner, and Robert A Saunders. Spacewar! is in the public domain, but this credit paragraph must accompany all distributed versions of the program.

This is the original version! Martin Graetz provided us with a printed version of the source. We typed in again - it was about 40 pages long - and re-assembled it with a PDP-1 assembler written in PERL. The resulting binary runs on a PDP-1 emulator written as a Java applet. The code is extremely faithful to the original. There are only two changes. 1) The spaceships have been made bigger and 2) The overall timing has been special cased to deal with varying machine speeds.

The "a", "s", "d", "f" keys control one of the spaceships. The "k", "l", ";", "" keys control the other. The controls are spin one way, spin the other, thrust, and fire.

Barry Silverman

Brian Silverman

Vadim Gerasimov

Files: src/pkg/exp/4s/xs.go, src/pkg/exp/4s/data.go

Origin: Derived from Plan 9's /sys/src/games/xs.c

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Files: src/cmd/goyacc/units.txt

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Files: src/cmd/goyacc/units.y

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Files: src/pkg/html/testdata/webkit/\*

Origin: WebKit LayoutTests/html5lib/resources/

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Files: src/pkg/image/png/testdata/pngsuite/\*

Origin: libpng 1.2.40, contrib/pngsuite/\*

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Files: doc/talks/slidy.\*

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.  
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See nacl/README for details on running them.

.  
They are a translation of the Java emulator pdp1.java in  
<http://spacewar.oversigma.com/sources/sources.zip>.

.  
See also the PDP-1 handbook at <http://www.dbit.com/~greeng3/pdp1/pdp1.html>

.  
<http://spacewar.oversigma.com/readme.html> begins:

.  
Spacewar! was conceived in 1961 by Martin Graetz, Stephen Russell, and Wayne Wiitanen. It was first realized on the PDP-1 in 1962 by Stephen Russell, Peter Samson, Dan Edwards, and Martin Graetz, together with Alan Kotok, Steve Piner, and Robert A Saunders.  
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## 1.108 Google GSON 1.2

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# 1.109 graphite2 1.3.6 :1.el7\_2

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AUTHOR

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. The `gm' 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.

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```
src/preproc/gm/gprint.h
src/preproc/gm/hdb.cpp
src/preproc/gm/hgraph.cpp
src/preproc/gm/hpoint.cpp
src/preproc/gm/main.cpp
```

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
```

src/devices/xditview/gxditview.man  
src/devices/xditview/lex.c  
src/devices/xditview/page.c  
src/devices/xditview/parse.c  
src/devices/xditview/xdit.bm  
src/devices/xditview/xdit\_mask.bm  
src/devices/xditview/xditview.c

src/include/DviChar.h  
src/include/XFontName.h

src/libs/libxutil/DviChar.c  
src/libs/libxutil/XFontName.c

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. The -mdoc macro set, using the BSD license.

tmac/doc.tmac  
tmac/doc-old.tmac  
tmac/doc-common  
tmac/doc-ditroff  
tmac/doc-nroff  
tmac/doc-syms  
tmac/groff\_mdoc.man

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tmac/e.tmac  
tmac/groff\_me.man  
doc/meintro.me  
doc/meref.me

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. 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

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- . The file ``tmac/hyphen.fr'` contains the same patterns as the file ``frhyph.tex'` (for TeX), which can be found at

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- . The file ``tmac/hyphen.cs'` contains the same patterns as the file ``czyphen.tex'` (for TeX), which can be found in the archive

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This Debian package was previously maintained by Fabrizio Polacco  
<[fpolacco@debian.org](mailto:fpolacco@debian.org)>.  
It is now maintained by Colin Watson <[cjwatson@debian.org](mailto:cjwatson@debian.org)>.

The original tarball came from <<URL:ftp://groff.ffii.org/pub/groff/>>:  
48fa768dd6fdeb7968041dd5ae8e2b02 groff-1.20.1.tar.gz  
and was simply renamed to groff\_1.20.1.orig.tar.gz.

Some patches have been applied to groff outside the debian directory.

The Debian diff also appends /usr/share/groff/tmac to the default macro path  
for compatibility with versions of groff earlier than 1.17 (patch by Colin  
Watson).

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Written by James Clark ([jjc@jclark.com](mailto:jjc@jclark.com))

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Included in this release are implementations of troff, pic, eqn, tbl, grn, refer, -man, -mdoc, and -ms macros, and drivers for PostScript, TeX dvi format, HP LaserJet 4 printers, Canon CAPSL printers, HTML format (still alpha), and typewriter-like devices. Also included is a modified version of the Berkeley -me macros, an enhanced version of the X11 xditview previewer, and an implementation of the -mm macros contributed by Joergen Haegg (jh@axis.se).

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I e-mailed the upstream maintainer to clarify the intent of this. Here is the relevant part of the reply:

From: Werner LEMBERG <wl@gnu.org>  
To: cjwatson@debian.org  
Subject: Re: Clarifying the scope of groff/LICENSE  
Date: Thu, 18 Nov 2004 00:19:52 +0100 (CET)

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> "may be distributed under the terms of the GPL", can I correctly  
> assume that groff/LICENSE grants me permission to distribute  
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> GPL?

This is the intention, of course.

> If not, is the FDL thing from yesteryear going to be resolved some  
> other way? I just want to make sure that I don't get forced to  
> remove the groff manual, since that would really diminish the  
> quality of the Debian package IMHO.

Sigh. I haven't found time to revert the FDL stuff back to GPL. It basically affects only Bernd Warken and me, and we have both agreed to return to GPL in case FDL makes problems.

(Note that this e-mail predates the current wording in LICENSES.)

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%%%%%%%%%
%%%%%%%%%
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## 1.114 gtk-doc-stub-native 2.24.25

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@c Local Variables:

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

@c End:

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Version 3, 29 June 2007

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```

```
@vskip 20pt plus 1fil
```

```
@end macro
```

```
@macro copyrightstart{ }
```

```
@end macro
```

```
@macro copyrightend{ }
```

```
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top
```

```
@comment node-name, next, previous, up
```

```
@appendix Copyrights and Licenses
```

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@heading Kungliga Tekniska Hgskolan
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@copyrightstart
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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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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>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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lib/hcrypto/test\_dh.c

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## 1.124 hibernate-validator 5.2.1

## 1.125 hosted-git-info 2.1.4

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## 1.130 httpcomponents-core 4.3.3

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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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888 8 888 .d88' Y888..8P
888 8 888ooo88P' `8888'
888 8 888 .8PY888.
`88. .8' 888 d8' `888b
`YbodP' o888o o888o o88888o
```

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The copyright law in the United States has a doctrine called "fair use". Fair use provides a defense to copyright infringement in some circumstances. For example, fair use allows documentary filmmakers to use very short clips of copyrighted movies, music and news footage without permission from the copyright owner. Fair use is a difficult concept because determining whether something is a fair use involves weighing four factors. Unfortunately, weighing the fair use factors rarely results in a clear-cut answer.

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### 1.1

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## 1.158 JLine 2.11

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 */
package jline.console.completer;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.LinkedList;
import java.util.List;

import static jline.internal.Preconditions.checkNotNull;

/**
 * Completer which contains multiple completers and aggregates them together.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class AggregateCompleter
    implements Completer
{
    private final List<Completer> completers = new ArrayList<Completer>();

    public AggregateCompleter() {
        // empty
    }
}
```

```

/**
 * Construct an AggregateCompleter with the given collection of completers.
 * The completers will be used in the iteration order of the collection.
 *
 * @param completers the collection of completers
 */
public AggregateCompleter(final Collection<Completer> completers) {
    checkNotNull(completers);
    this.completers.addAll(completers);
}

/**
 * Construct an AggregateCompleter with the given completers.
 * The completers will be used in the order given.
 *
 * @param completers the completers
 */
public AggregateCompleter(final Completer... completers) {
    this(Arrays.asList(completers));
}

/**
 * Retrieve the collection of completers currently being aggregated.
 *
 * @return the aggregated completers
 */
public Collection<Completer> getCompleters() {
    return completers;
}

/**
 * Perform a completion operation across all aggregated completers.
 *
 * @see Completer#complete(String, int, java.util.List)
 * @return the highest completion return value from all completers
 */
public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
    // buffer could be null
    checkNotNull(candidates);

    List<Completion> completions = new ArrayList<Completion>(completers.size());

    // Run each completer, saving its completion results
    int max = -1;
    for (Completer completer : completers) {
        Completion completion = new Completion(candidates);
        completion.complete(completer, buffer, cursor);
    }
}

```

```

    // Compute the max cursor position
    max = Math.max(max, completion.cursor);

    completions.add(completion);
}

// Append candidates from completions which have the same cursor position as max
for (Completion completion : completions) {
    if (completion.cursor == max) {
        candidates.addAll(completion.candidates);
    }
}

return max;
}

/**
 * @return a string representing the aggregated completers
 */
@Override
public String toString() {
    return getClass().getSimpleName() + "{" +
        "completers=" + completers +
        '}';
}

private class Completion
{
    public final List<CharSequence> candidates;

    public int cursor;

    public Completion(final List<CharSequence> candidates) {
        checkNotNull(candidates);
        this.candidates = new LinkedList<CharSequence>(candidates);
    }

    public void complete(final Completer completer, final String buffer, final int cursor) {
        checkNotNull(completer);
        this.cursor = completer.complete(buffer, cursor, candidates);
    }
}

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```



```

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*/
package jline.console.completer;

import jline.internal.Log;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Collection;
import java.util.LinkedList;
import java.util.List;

import static jline.internal.Preconditions.checkNotNull;

/**
 * A { @link Completer } implementation that invokes a child completer using the appropriate <i>separator</i>
 * argument.
 * This can be used instead of the individual completers having to know about argument parsing semantics.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class ArgumentCompleter
    implements Completer
{
    private final ArgumentDelimiter delimiter;

    private final List<Completer> completers = new ArrayList<Completer>();

    private boolean strict = true;

    /**
     * Create a new completer with the specified argument delimiter.
     *
     * @param delimiter The delimiter for parsing arguments
     * @param completers The embedded completers
     */
    public ArgumentCompleter(final ArgumentDelimiter delimiter, final Collection<Completer> completers) {
        this.delimiter = checkNotNull(delimiter);
        checkNotNull(completers);
        this.completers.addAll(completers);
    }

    /**
     * Create a new completer with the specified argument delimiter.

```

```

*
* @param delimiter The delimiter for parsing arguments
* @param completers The embedded completers
*/
public ArgumentCompleter(final ArgumentDelimiter delimiter, final Completer... completers) {
    this(delimiter, Arrays.asList(completers));
}

/**
 * Create a new completer with the default { @link WhitespaceArgumentDelimiter}.
 *
 * @param completers The embedded completers
 */
public ArgumentCompleter(final Completer... completers) {
    this(new WhitespaceArgumentDelimiter(), completers);
}

/**
 * Create a new completer with the default { @link WhitespaceArgumentDelimiter}.
 *
 * @param completers The embedded completers
 */
public ArgumentCompleter(final List<Completer> completers) {
    this(new WhitespaceArgumentDelimiter(), completers);
}

/**
 * If true, a completion at argument index N will only succeed
 * if all the completions from 0-(N-1) also succeed.
 */
public void setStrict(final boolean strict) {
    this.strict = strict;
}

/**
 * Returns whether a completion at argument index N will success
 * if all the completions from arguments 0-(N-1) also succeed.
 *
 * @return True if strict.
 * @since 2.3
 */
public boolean isStrict() {
    return this.strict;
}

/**
 * @since 2.3
 */

```

```

public ArgumentDelimiter getDelimiter() {
    return delimiter;
}

/**
 * @since 2.3
 */
public List<Completer> getCompleters() {
    return completers;
}

public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
    // buffer can be null
    checkNotNull(candidates);

    ArgumentDelimiter delim = getDelimiter();
    ArgumentList list = delim.delimit(buffer, cursor);
    int argpos = list.getArgumentPosition();
    int argIndex = list.getCursorArgumentIndex();

    if (argIndex < 0) {
        return -1;
    }

    List<Completer> completers = getCompleters();
    Completer completer;

    // if we are beyond the end of the completers, just use the last one
    if (argIndex >= completers.size()) {
        completer = completers.get(completers.size() - 1);
    }
    else {
        completer = completers.get(argIndex);
    }

    // ensure that all the previous completers are successful before allowing this completer to pass (only if strict).
    for (int i = 0; isStrict() && (i < argIndex); i++) {
        Completer sub = completers.get(i >= completers.size() ? (completers.size() - 1) : i);
        String[] args = list.getArguments();
        String arg = (args == null || i >= args.length) ? "" : args[i];

        List<CharSequence> subCandidates = new LinkedList<CharSequence>();

        if (sub.complete(arg, arg.length(), subCandidates) == -1) {
            return -1;
        }

        if (subCandidates.size() == 0) {

```

```

        return -1;
    }
}

int ret = completer.complete(list.getCursorArgument(), argpos, candidates);

if (ret == -1) {
    return -1;
}

int pos = ret + list.getBufferPosition() - argpos;

// Special case: when completing in the middle of a line, and the area under the cursor is a delimiter,
// then trim any delimiters from the candidates, since we do not need to have an extra delimiter.
//
// E.g., if we have a completion for "foo", and we enter "f bar" into the buffer, and move to after the "f"
// and hit TAB, we want "foo bar" instead of "foo bar".

if ((cursor != buffer.length()) && delim.isDelimiter(buffer, cursor)) {
    for (int i = 0; i < candidates.size(); i++) {
        CharSequence val = candidates.get(i);

        while (val.length() > 0 && delim.isDelimiter(val, val.length() - 1)) {
            val = val.subSequence(0, val.length() - 1);
        }

        candidates.set(i, val);
    }
}

Log.trace("Completing ", buffer, " (pos=", cursor, ") with: ", candidates, ": offset=", pos);

return pos;
}

/**
 * The {@link ArgumentCompleter.ArgumentDelimiter} allows custom breaking up of a {@link String} into
individual
 * arguments in order to dispatch the arguments to the nested {@link Completer}.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public static interface ArgumentDelimiter
{
    /**
     * Break the specified buffer into individual tokens that can be completed on their own.
     *
     * @param buffer The buffer to split

```

```

* @param pos    The current position of the cursor in the buffer
* @return      The tokens
*/
ArgumentList delimit(CharSequence buffer, int pos);

/**
* Returns true if the specified character is a whitespace parameter.
*
* @param buffer  The complete command buffer
* @param pos    The index of the character in the buffer
* @return      True if the character should be a delimiter
*/
boolean isDelimiter(CharSequence buffer, int pos);
}

/**
* Abstract implementation of a delimiter that uses the { @link #isDelimiter} method to determine if a particular
* character should be used as a delimiter.
*
* @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
*/
public abstract static class AbstractArgumentDelimiter
    implements ArgumentDelimiter
{
    // TODO: handle argument quoting and escape characters

    private char[] quoteChars = {"'", ""};

    private char[] escapeChars = {"\\"};

    public void setQuoteChars(final char[] chars) {
        this.quoteChars = chars;
    }

    public char[] getQuoteChars() {
        return this.quoteChars;
    }

    public void setEscapeChars(final char[] chars) {
        this.escapeChars = chars;
    }

    public char[] getEscapeChars() {
        return this.escapeChars;
    }

    public ArgumentList delimit(final CharSequence buffer, final int cursor) {
        List<String> args = new LinkedList<String>();

```

```

StringBuilder arg = new StringBuilder();
int argpos = -1;
int bindex = -1;

for (int i = 0; (buffer != null) && (i <= buffer.length()); i++) {
    // once we reach the cursor, set the
    // position of the selected index
    if (i == cursor) {
        bindex = args.size();
        // the position in the current argument is just the
        // length of the current argument
        argpos = arg.length();
    }

    if ((i == buffer.length()) || isDelimiter(buffer, i)) {
        if (arg.length() > 0) {
            args.add(arg.toString());
            arg.setLength(0); // reset the arg
        }
    }
    else {
        arg.append(buffer.charAt(i));
    }
}

return new ArgumentList(args.toArray(new String[args.size()]), bindex, argpos, cursor);
}

/**
 * Returns true if the specified character is a whitespace parameter. Check to ensure that the character is not
 * escaped by any of { @link #getQuoteChars}, and is not escaped by ant of the { @link #getEscapeChars}, and
 * returns true from { @link #isDelimiterChar}.
 *
 * @param buffer The complete command buffer
 * @param pos The index of the character in the buffer
 * @return True if the character should be a delimiter
 */
public boolean isDelimiter(final CharSequence buffer, final int pos) {
    return !isQuoted(buffer, pos) && !isEscaped(buffer, pos) && isDelimiterChar(buffer, pos);
}

public boolean isQuoted(final CharSequence buffer, final int pos) {
    return false;
}

public boolean isEscaped(final CharSequence buffer, final int pos) {
    if (pos <= 0) {
        return false;
    }
}

```

```

    }

    for (int i = 0; (escapeChars != null) && (i < escapeChars.length);
        i++) {
        if (buffer.charAt(pos) == escapeChars[i]) {
            return !isEscaped(buffer, pos - 1); // escape escape
        }
    }

    return false;
}

/**
 * Returns true if the character at the specified position is a delimiter. This method will only be called if
 * the character is not enclosed in any of the {@link #getQuoteChars}, and is not escaped by any of the
 * {@link #getEscapeChars}. To perform escaping manually, override {@link #isDelimiter} instead.
 */
public abstract boolean isDelimiterChar(CharSequence buffer, int pos);
}

/**
 * {@link ArgumentCompleter.ArgumentDelimiter} implementation that counts all whitespace (as reported by
 * {@link Character#isWhitespace}) as being a delimiter.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public static class WhitespaceArgumentDelimiter
    extends AbstractArgumentDelimiter
{
    /**
     * The character is a delimiter if it is whitespace, and the
     * preceding character is not an escape character.
     */
    @Override
    public boolean isDelimiterChar(final CharSequence buffer, final int pos) {
        return Character.isWhitespace(buffer.charAt(pos));
    }
}

/**
 * The result of a delimited buffer.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 */
public static class ArgumentList
{
    private String[] arguments;

```

```

private int cursorArgumentIndex;

private int argumentPosition;

private int bufferPosition;

/**
 * @param arguments      The array of tokens
 * @param cursorArgumentIndex  The token index of the cursor
 * @param argumentPosition  The position of the cursor in the current token
 * @param bufferPosition    The position of the cursor in the whole buffer
 */
public ArgumentList(final String[] arguments, final int cursorArgumentIndex, final int argumentPosition, final
int bufferPosition) {
    this.arguments = checkNotNull(arguments);
    this.cursorArgumentIndex = cursorArgumentIndex;
    this.argumentPosition = argumentPosition;
    this.bufferPosition = bufferPosition;
}

public void setCursorArgumentIndex(final int i) {
    this.cursorArgumentIndex = i;
}

public int getCursorArgumentIndex() {
    return this.cursorArgumentIndex;
}

public String getCursorArgument() {
    if ((cursorArgumentIndex < 0) || (cursorArgumentIndex >= arguments.length)) {
        return null;
    }

    return arguments[cursorArgumentIndex];
}

public void setArgumentPosition(final int pos) {
    this.argumentPosition = pos;
}

public int getArgumentPosition() {
    return this.argumentPosition;
}

public void setArguments(final String[] arguments) {
    this.arguments = arguments;
}

```



```

    public String[] getArguments() {
        return this.arguments;
    }

    public void setBufferPosition(final int pos) {
        this.bufferPosition = pos;
    }

    public int getBufferPosition() {
        return this.bufferPosition;
    }
}
}
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 */
package jline.console.completer;

import jline.console.ConsoleReader;
import jline.console.CursorBuffer;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashSet;
import java.util.List;
import java.util.Locale;
import java.util.ResourceBundle;
import java.util.Set;

/**
 * A {@link CompletionHandler} that deals with multiple distinct completions
 * by outputting the complete list of possibilities to the console. This
 * mimics the behavior of the
 * <a href="http://www.gnu.org/directory/readline.html">readline</a> library.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class CandidateListCompletionHandler
    implements CompletionHandler
{

```

```

// TODO: handle quotes and escaped quotes && enable automatic escaping of whitespace

public boolean complete(final ConsoleReader reader, final List<CharSequence> candidates, final int pos) throws
    IOException
{
    CursorBuffer buf = reader.getCursorBuffer();

    // if there is only one completion, then fill in the buffer
    if (candidates.size() == 1) {
        CharSequence value = candidates.get(0);

        // fail if the only candidate is the same as the current buffer
        if (value.equals(buf.toString())) {
            return false;
        }

        setBuffer(reader, value, pos);

        return true;
    }
    else if (candidates.size() > 1) {
        String value = getUnambiguousCompletions(candidates);
        setBuffer(reader, value, pos);
    }

    printCandidates(reader, candidates);

    // redraw the current console buffer
    reader.drawLine();

    return true;
}

public static void setBuffer(final ConsoleReader reader, final CharSequence value, final int offset) throws
    IOException
{
    while ((reader.getCursorBuffer().cursor > offset) && reader.backspace()) {
        // empty
    }

    reader.putString(value);
    reader.setCursorPosition(offset + value.length());
}

/**
 * Print out the candidates. If the size of the candidates is greater than the
 * {@link ConsoleReader#getAutoprintThreshold}, they prompt with a warning.
 */

```

```

* @param candidates the list of candidates to print
*/
public static void printCandidates(final ConsoleReader reader, Collection<CharSequence> candidates) throws
    IOException
{
    Set<CharSequence> distinct = new HashSet<CharSequence>(candidates);

    if (distinct.size() > reader.getAutoprintThreshold()) {
        //noinspection StringConcatenation
        reader.print(Messages.DISPLAY_CANDIDATES.format(candidates.size()));
        reader.flush();

        int c;

        String noOpt = Messages.DISPLAY_CANDIDATES_NO.format();
        String yesOpt = Messages.DISPLAY_CANDIDATES_YES.format();
        char[] allowed = {yesOpt.charAt(0), noOpt.charAt(0)};

        while ((c = reader.readCharacter(allowed)) != -1) {
            String tmp = new String(new char[]{(char) c});

            if (noOpt.startsWith(tmp)) {
                reader.println();
                return;
            }
            else if (yesOpt.startsWith(tmp)) {
                break;
            }
            else {
                reader.beep();
            }
        }
    }

    // copy the values and make them distinct, without otherwise affecting the ordering. Only do it if the sizes differ.
    if (distinct.size() != candidates.size()) {
        Collection<CharSequence> copy = new ArrayList<CharSequence>();

        for (CharSequence next : candidates) {
            if (!copy.contains(next)) {
                copy.add(next);
            }
        }

        candidates = copy;
    }

    reader.println();
}

```

```

    reader.printColumns(candidates);
}

/**
 * Returns a root that matches all the {@link String} elements of the specified {@link List},
 * or null if there are no commonalities. For example, if the list contains
 * <i>foobar</i>, <i>foobaz</i>, <i>foobuz</i>, the method will return <i>foob</i>.
 */
private String getUnambiguousCompletions(final List<CharSequence> candidates) {
    if (candidates == null || candidates.isEmpty()) {
        return null;
    }

    // convert to an array for speed
    String[] strings = candidates.toArray(new String[candidates.size()]);

    String first = strings[0];
    StringBuilder candidate = new StringBuilder();

    for (int i = 0; i < first.length(); i++) {
        if (startsWith(first.substring(0, i + 1), strings)) {
            candidate.append(first.charAt(i));
        }
        else {
            break;
        }
    }

    return candidate.toString();
}

/**
 * @return true is all the elements of <i>candidates</i> start with <i>starts</i>
 */
private boolean startsWith(final String starts, final String[] candidates) {
    for (String candidate : candidates) {
        if (!candidate.startsWith(starts)) {
            return false;
        }
    }

    return true;
}

private static enum Messages
{
    DISPLAY_CANDIDATES,
    DISPLAY_CANDIDATES_YES,

```

```

    DISPLAY_CANDIDATES_NO,;

    private static final
    ResourceBundle
        bundle =
            ResourceBundle.getBundle(CandidateListCompletionHandler.class.getName(), Locale.getDefault());

    public String format(final Object... args) {
        if (bundle == null)
            return "";
        else
            return String.format(bundle.getString(name()), args);
    }
}
}
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 */
package jline.console.completer;

import java.util.List;

/**
 * A completer is the mechanism by which tab-completion candidates will be resolved.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public interface Completer
{
    //
    // FIXME: Check if we can use CharSequece for buffer?
    //

    /**
     * Populates <i>candidates</i> with a list of possible completions for the <i>buffer</i>.
     *
     * The <i>candidates</i> list will not be sorted before being displayed to the user: thus, the
     * complete method should sort the { @link List} before returning.
     *
     * @param buffer    The buffer
     * @param cursor    The current position of the cursor in the <i>buffer</i>
     */
}

```

```

    * @param candidates The {@link List} of candidates to populate
    * @return The index of the <i>buffer</i> for which the completion will be relative
    */
    int complete(String buffer, int cursor, List<CharSequence> candidates);
}
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 */
package jline.console.completer;

import jline.console.ConsoleReader;

import java.io.IOException;
import java.util.List;

/**
 * Handler for dealing with candidates for tab-completion.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public interface CompletionHandler
{
    boolean complete(ConsoleReader reader, List<CharSequence> candidates, int position) throws IOException;
}
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 */
package jline.console.completer;

import static jline.internal.Preconditions.checkNotNull;

/**
 * {@link Completer} for {@link Enum} names.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */

```

```

*/
public class EnumCompleter
    extends StringsCompleter
{
    public EnumCompleter(Class<? extends Enum> source) {
        checkNotNull(source);

        for (Enum<?> n : source.getEnumConstants()) {
            this.getStrings().add(n.name().toLowerCase());
        }
    }
}
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*/
package jline.console.completer;

import jline.internal.Configuration;

import java.io.File;
import java.util.List;

import static jline.internal.Preconditions.checkNotNull;

/**
 * A file name completer takes the buffer and issues a list of
 * potential completions.
 *
 * 

* This completer tries to behave as similar as possible to
 * bash's file name completion (using GNU readline)
 * with the following exceptions:
 *
 * 


 * - Candidates that are directories will end with "/"

 * - Wildcard regular expressions are not evaluated or replaced

 * - The "~" character can be used to represent the user's home,
 * but it cannot complete to other users' homes, since java does
 * not provide any way of determining that easily


 *
 *
 * @author Marc Prud'hommeaux
 * @author Jason Dillon
 * @since 2.3


```

```

*/
public class FileNameCompleter
    implements Completer
{
    // TODO: Handle files with spaces in them

    private static final boolean OS_IS_WINDOWS;

    static {
        String os = Configuration.getOsName();
        OS_IS_WINDOWS = os.contains("windows");
    }

    public int complete(String buffer, final int cursor, final List<CharSequence> candidates) {
        // buffer can be null
        checkNotNull(candidates);

        if (buffer == null) {
            buffer = "";
        }

        if (OS_IS_WINDOWS) {
            buffer = buffer.replace('/', '\\');
        }

        String translated = buffer;

        File homeDir = getUserHome();

        // Special character: ~ maps to the user's home directory
        if (translated.startsWith("~" + separator())) {
            translated = homeDir.getPath() + translated.substring(1);
        }
        else if (translated.startsWith("~")) {
            translated = homeDir.getParentFile().getAbsolutePath();
        }
        else if (!(translated.startsWith(separator()))) {
            String cwd = getUserDir().getAbsolutePath();
            translated = cwd + separator() + translated;
        }

        File file = new File(translated);
        final File dir;

        if (translated.endsWith(separator())) {
            dir = file;
        }
        else {

```



```

        dir = file.getParentFile();
    }

    File[] entries = dir == null ? new File[0] : dir.listFiles();

    return matchFiles(buffer, translated, entries, candidates);
}

protected String separator() {
    return File.separator;
}

protected File getUserHome() {
    return Configuration.getUserHome();
}

protected File getUserDir() {
    return new File(".");
}

protected int matchFiles(final String buffer, final String translated, final File[] files, final List<CharSequence>
candidates) {
    if (files == null) {
        return -1;
    }

    int matches = 0;

    // first pass: just count the matches
    for (File file : files) {
        if (file.getAbsolutePath().startsWith(translated)) {
            matches++;
        }
    }
    for (File file : files) {
        if (file.getAbsolutePath().startsWith(translated)) {
            CharSequence name = file.getName() + (matches == 1 && file.isDirectory() ? separator() : " ");
            candidates.add(render(file, name).toString());
        }
    }

    final int index = buffer.lastIndexOf(separator());

    return index + separator().length();
}

protected CharSequence render(final File file, final CharSequence name) {
    return name;
}

```

```

    }
}
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 * BSD license in the documentation provided with this software.
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 */
package jline.console.completer;

import java.util.List;

/**
 * Null completer.
 *
 * @author <a href="mailto:mwp1@cornell.edu">Marc Prud'hommeaux</a>
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public final class NullCompleter
    implements Completer
{
    public static final NullCompleter INSTANCE = new NullCompleter();

    public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
        return -1;
    }
}
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 */
package jline.console.completer;

import java.util.Arrays;
import java.util.Collection;
import java.util.List;
import java.util.SortedSet;
import java.util.TreeSet;

import static jline.internal.Preconditions.checkNotNull;

```

```

/**
 * Completer for a set of strings.
 *
 * @author <a href="mailto:jason@planet57.com">Jason Dillon</a>
 * @since 2.3
 */
public class StringsCompleter
    implements Completer
{
    private final SortedSet<String> strings = new TreeSet<String>();

    public StringsCompleter() {
        // empty
    }

    public StringsCompleter(final Collection<String> strings) {
        checkNotNull(strings);
        getStrings().addAll(strings);
    }

    public StringsCompleter(final String... strings) {
        this(Arrays.asList(strings));
    }

    public Collection<String> getStrings() {
        return strings;
    }

    public int complete(final String buffer, final int cursor, final List<CharSequence> candidates) {
        // buffer could be null
        checkNotNull(candidates);

        if (buffer == null) {
            candidates.addAll(strings);
        }
        else {
            for (String match : strings.tailSet(buffer)) {
                if (!match.startsWith(buffer)) {
                    break;
                }

                candidates.add(match);
            }
        }

        if (candidates.size() == 1) {
            candidates.set(0, candidates.get(0) + " ");
        }
    }
}

```

```

        return candidates.isEmpty() ? -1 : 0;
    }
}
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#

DISPLAY_CANDIDATES=Display all %d possibilities? (y or n)
DISPLAY_CANDIDATES_YES=y
DISPLAY_CANDIDATES_NO=n
DISPLAY_MORE=--More--

```

## 1.159 jna 3.4.0

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```

* holder.
*/
package com.sun.el;

import javax.el.ELContext;
import javax.el.ELException;
import javax.el.ExpressionFactory;
import javax.el.MethodExpression;
import javax.el.ValueExpression;

import com.sun.el.lang.ExpressionBuilder;
import com.sun.el.lang.ELSupport;
import com.sun.el.util.MessageFactory;

/**
 * @see javax.el.ExpressionFactory
 *
 * @author Jacob Hookom [jacob@hookom.net]
 * @version $Change: 181177 $ $DateTime: 2001/06/26 08:45:09 $ $Author: tcfujii $
 */
public class ExpressionFactoryImpl extends ExpressionFactory {

    /**
     *
     */
    public ExpressionFactoryImpl() {
        super();
    }

    public Object coerceToType(Object obj, Class type) {
        Object ret;
        try {
            ret = ELSupport.coerceToType(obj, type);
        } catch (IllegalArgumentException ex) {
            throw new ELException(ex);
        }
        return ret;
    }

    public MethodExpression createMethodExpression(ELContext context,
        String expression, Class expectedReturnType,
        Class[] expectedParamTypes) {
        if (expectedParamTypes == null) {
            throw new NullPointerException(MessageFactory
                .get("error.method.nullParms"));
        }
        ExpressionBuilder builder = new ExpressionBuilder(expression, context);
        return builder.createMethodExpression(expectedReturnType,

```

```

        expectedParamTypes);
    }

    public ValueExpression createValueExpression(ELContext context,
        String expression, Class expectedType) {
        if (expectedType == null) {
            throw new NullPointerException(MessageFactory
                .get("error.value.expectedType"));
        }
        ExpressionBuilder builder = new ExpressionBuilder(expression, context);
        return builder.createValueExpression(expectedType);
    }

    public ValueExpression createValueExpression(Object instance,
        Class expectedType) {
        if (expectedType == null) {
            throw new NullPointerException(MessageFactory
                .get("error.value.expectedType"));
        }
        return new ValueExpressionLiteral(instance, expectedType);
    }
}

//=====
//$Id: JettyLog.java 1106 2006-10-17 17:00:06Z janb $
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//-----
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//=====

package com.sun.org.apache.commons.logging;

/**
 * Log
 *
 * Bridges the com.sun.org.apache.commons.logging.Log to Jetty's log.
 */
public class JettyLog implements Log
{

```

```

private String _name;
private org.mortbay.log.Logger _logger;

/**
 *
 */
public JettyLog(String name)
{
    _name = name;
    _logger = org.mortbay.log.Log.getLogger(name);
}
public void fatal (Object message)
{
    _logger.warn(message.toString(), null, null);
}

public void fatal (Object message, Throwable t)
{
    _logger.warn(message.toString(), t);
}

public void debug(Object message)
{
    _logger.debug(message.toString(), null);
}

public void debug (Object message, Throwable t)
{
    _logger.debug(message.toString(), t);
}

public void trace (Object message)
{
    _logger.debug(message.toString(), null);
}

public void info(Object message)
{
    _logger.info(message.toString(), null, null);
}

public void error(Object message)
{
    _logger.warn(message.toString(), null);
}

public void error(Object message, Throwable cause)

```



```

    {
        _logger.warn(message.toString(), cause);
    }

    public void warn(Object message)
    {
        _logger.warn(message.toString(), null);
    }

    public boolean isDebugEnabled ()
    {
        return _logger.isDebugEnabled();
    }

    public boolean isWarnEnabled ()
    {
        return _logger.isDebugEnabled();
    }

    public boolean isInfoEnabled ()
    {
        return true;
    }

    public boolean isErrorEnabled ()
    {
        return true;
    }

    public boolean isTraceEnabled ()
    {
        return _logger.isDebugEnabled();
    }
}

```

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cmd/krb5/iproplib/iproplib.x
cmd/krb5/iproplib/iproplib_hdr.h
cmd/krb5/kadmin/server/iproplib_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
```

lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c

lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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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/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.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  
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cmd/krb5/kproplog/kproplog.c  
cmd/krb5/slave/kpropd\_rpc.c  
lib/gss\_mechs/mech\_krb5/et/kdb5\_err.c  
lib/gss\_mechs/mech\_spnego/mech/gssapiP\_spnego.h  
lib/gss\_mechs/mech\_spnego/mech/spnego\_mech.c  
lib/krb5/kadm5/kadm\_host\_srv\_names.c  
lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
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lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
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lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h

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(in case you are wondering where CyberLogin is, EON changed its login  
procedure and CyberLogin is no longer used.)

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for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see `init_nicstar()` for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather lists

\* (`skb->atm.iovcnt != 0`) for Rx skb's passed to `vcc->push`.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

\* Fix is simple: make large buffers large enough to hold entire

\* SDU, and leave `<small_buffer_data>` bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

\* Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:

\* 1) skb->destructor / skb->atm.recycle\_buffer combined, allow nicstar\_free\_rx\_skb to be called to recycle large data buffers

\* 2) skb\_clone of received buffers

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation details.

\*  
\*  
\*

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\*  
\* M. Welsh, 6 July 1996

\*  
\*  
\*/

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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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

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

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
GNU General Public License for more details.

You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, the commands you use may  
be called something other than `show w' and `show c'; they could even be  
mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

This General Public License does not permit incorporating your program into  
proprietary programs. If your program is a subroutine library, you may  
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library. If this is what you want to do, use the GNU Library General  
Public License instead of this License.

NOTE! This copyright does *\*not\** cover user programs that use kernel  
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of the kernel, and does *\*not\** fall under the heading of "derived work".  
Also note that the GPL below is copyrighted by the Free Software  
Foundation, but the instance of code that it refers to (the Linux  
kernel) is copyrighted by me and others who actually wrote it.

Also note that the only valid version of the GPL as far as the kernel is concerned is `_this_` particular version of the license (ie v2, not v2.2 or v3.x or whatever), unless explicitly otherwise stated.

Linus Torvalds

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Version 2, June 1991

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### Preamble

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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 software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy,

distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, 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 redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

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2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, 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) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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 Program.

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) 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; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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

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

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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#### END OF TERMS AND CONDITIONS

## How to Apply These Terms to Your New Programs

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

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

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
This program is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the  
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```

```
You should have received a copy of the GNU General Public License  
along with this program; if not, write to the Free Software  
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
```

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

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

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into  
proprietary programs. If your program is a subroutine library, you may  
consider it more useful to permit linking proprietary applications with the  
library. If this is what you want to do, use the GNU Library General  
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Version 2, June 1991

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[This is the first released version of the library GPL. It is  
numbered 2 because it goes with version 2 of the ordinary GPL.]

#### Preamble

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

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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  
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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.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

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

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

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

6. As an exception to the Sections above, you may also 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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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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## 1.175 kmod 18-3

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

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

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

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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,

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Version 3, 29 June 2007

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```
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## 1.182 libasyncons 0.8-4 :4

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(For example, a function in a library to compute square roots has



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## 1.184 libcap 2.24

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## 1.190 libicu 50.1.2 :15

## 1.191 libicu 4.0 :7.24.11

### 1.191.1 Available under license :

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

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

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

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

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

## Versioned libraries rules

```

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

```
## End FreeBSD-specific setup
ICU License - ICU 1.8.1 and later
```

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## 1.192 libidn 1.29-1

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Version 3, 29 June 2007

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```

# 1.193 libidn 1.25

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DOCUMENTATION ROADMAP

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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:

install.txt    How to configure and install the IJG software.  
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.  
coderrules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and 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 gray-scale 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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## REFERENCES

=====

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 PostScript file containing a revised version of Wallace's article is available at <http://www.ijg.org/files/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

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.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <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

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org). The most recent released version can always be found there in directory "files". This particular version will be archived as <http://www.ijg.org/files/jpegsrc.v8d.tar.gz>, and in Windows-compatible "zip" archive format as <http://www.ijg.org/files/jpegsr8d.zip>.

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/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

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

## FILE FORMAT WARS

=====

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

(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.

\*\*\*\*\*

\*\* Background

\*\*\*\*\*

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

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

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

\*\*\*\*\*

\*\* License

\*\*\*\*\*

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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\*\*\*\*\*

\*\* Using libjpeg-turbo

\*\*\*\*\*

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

=====

Installation Directory

=====

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un\*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

=====

Replacing libjpeg at Run Time

=====

Un\*x

----

If a Un\*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD\_LIBRARY\_PATH. For instance:

[Using libjpeg]

```
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s
```

[Using libjpeg-turbo]

```
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
sys 0m0.010s
```

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib\* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows

-----

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable

Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg\_stdio\_dest() and jpeg\_stdio\_src().

Mac

---

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.\*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install\_name\_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

=====  
Using libjpeg-turbo in Your Own Programs  
=====

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un\*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

```
CPATH=/opt/libjpeg-turbo/include  
and  
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}
```

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

```
CPATH=/c/libjpeg-turbo-gcc[64]/include  
and  
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib
```

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un\*x systems, you would still need to manipulate LD\_LIBRARY\_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/{lib} to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to

leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Unix or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

```
-Wl,-Bstatic -ljpeg -Wl,-Bdynamic
```

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]\include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]\lib to the system or user LIB environment variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

```
=====
Colorspace Extensions
=====
```

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

```
JCS_EXT_RGB /* red/green/blue */
JCS_EXT_RGBX /* red/green/blue/x */
JCS_EXT_BGR /* blue/green/red */
JCS_EXT_BGRX /* blue/green/red/x */
JCS_EXT_XBGR /* x/blue/green/red */
JCS_EXT_XRGB /* x/red/green/blue */
JCS_EXT_RGBA /* red/green/blue/alpha */
JCS_EXT_BGRA /* blue/green/red/alpha */
JCS_EXT_ABGR /* alpha/blue/green/red */
JCS_EXT_ARGB /* alpha/red/green/blue */
```

Setting `cinfo.in_color_space` (compression) or `cinfo.out_color_space` (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

```
#ifdef JCS_EXTENSIONS
```

At run time, attempting to use these extensions with a libjpeg implementation

that does not support them will result in a "Bogus input colorspace" error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspace during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS\_EXT\_RGBA, JCS\_EXT\_BGRA, JCS\_EXT\_ABGR, or JCS\_EXT\_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```
#ifdef JCS_ALPHA_EXTENSIONS
```

jcstest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

```
=====  
libjpeg v7 and v8 API/ABI Emulation  
=====
```

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH\_JPEG7=1 or -DWITH\_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:

```
-----
```

Fully supported:

- libjpeg: IDCT scaling extensions in decompressor  
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)
- libjpeg: arithmetic coding
- libjpeg: In-memory source and destination managers  
See notes below.
- cjpeg: Separate quality settings for luminance and chrominance  
Note that the libjpeg v7+ API was extended to accommodate this feature only for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)
- cjpeg: 32-bit BMP support
- cjpeg: -rgb option
- jpegtran: lossless cropping
- jpegtran: -perfect option
- jpegtran: forcing width/height when performing lossless crop
- rdjpgcom: -raw option
- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at <http://www.libjpeg-turbo.org/About/SmartScale> and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

- libjpeg: DCT scaling in compressor  
cinfo.scale\_num and cinfo.scale\_denom are silently ignored.  
There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale

cinfo.block\_size is silently ignored.

SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor

cinfo.do\_fancy\_downsampling is silently ignored.

This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling

This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files

This requires the SmartScale feature, which is not supported.

What About libjpeg v9?

-----

libjpeg v9 introduced yet another field to the JPEG compression structure (color\_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=====

In-Memory Source/Destination Managers

=====

By default, libjpeg-turbo 1.3 and later includes the jpeg\_mem\_src() and jpeg\_mem\_dest() functions, even when not emulating the libjpeg v8 API/ABI.



Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of `--without-mem-srcdst` to configure or an argument of `-DWITH_MEM_SRC DST=0` to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which `jpeg_mem_src()` and `jpeg_mem_dest()` are only included when emulating the libjpeg v8 API/ABI.

On Un\*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un\*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses `jpeg_mem_src()` or `jpeg_mem_dest()`, that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call `jpeg_mem_src()` or `jpeg_mem_dest()`. Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses `jpeg_mem_src()` or `jpeg_mem_dest()`, then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both `cjpeg` and `djpeg` have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

```
*****  
**  Mathematical Compatibility  
*****
```

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.
- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.
- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.
- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support merged upsampling with scaling factors > 1.

\*\*\*\*\*  
 \*\* Performance Pitfalls  
 \*\*\*\*\*

=====  
 Restart Markers  
 =====

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

=====  
 Fast Integer Forward DCT at High Quality Levels  
 =====

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

# 1.195 libjson 0.11-2

## 1.195.1 Available under license :

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# 1.196 libnet 1.1.4 :2.1

## 1.196.1 Available under license :

\$Id: COPYING,v 1.1.1.1 2003/06/26 21:55:10 route Exp \$

libnet 1.1.x

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<http://www.packetfactory.net/libnet>

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EOF

# 1.197 libnuma1 2.0.8~rc3 :1.0

## 1.197.1 Available under license :

This package was debianized by Ian Wienand <ianw@gelato.unsw.edu.au> on Wed, 15 Dec 2004.

libnuma sources are available from  
<http://oss.sgi.com/projects/libnuma/>

Upstream Authors:

Andi Kleen <ak@suse.de>

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Upstream-Name: libssh2

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## 1.204 libtasn1-6 4.2-3+deb8u1

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For an executable, the required form of the "work that uses the



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## 1.213 libxcursor 1.1.14 :1

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## 1.215 libXi 1.7.4 :1.e16

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/\*

\* hash.c: chained hash tables

\*

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\*

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\*

\* Author: breese@users.sourceforge.net

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\* list.c: lists handling implementation

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## 1.225 Isof 4.86+dfsg-1

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

Upstream-Name: Isof

Upstream-Contact: <https://lists.rcac.purdue.edu/listinfo/Isof-1>

Source: <ftp://Isof.itap.purdue.edu/pub/tools/unix/Isof/>

Comment: The following changes were made to the upstream tarball:

- 1.) The directory dialects/uw was removed for being non-DFSG and not needed in Debian.
- 2.) The main source was a tarball within a tarball. Only the innermost tarball has been retained.
- 3.) The top-level directory has been stripped away as it embedded the version number making packaging more difficult.

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# 1.227 lz4 r131 :1

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```
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```
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free 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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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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impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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#### END OF TERMS AND CONDITIONS

#### Appendix: How to Apply These Terms to Your New Libraries

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

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

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Version 3, 29 June 2007

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

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

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

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

## TERMS AND CONDITIONS

### 0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based

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To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

#### 1. Source Code.

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

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

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's

System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

## 2. Basic Permissions.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- 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.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a

requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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@end enumerate

@page

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@smallexample

```
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@end group
@end smallexample
```

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```
@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample
```

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

## 1.232 mawk 1.3.3-17

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
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```

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

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```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
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mouse-clicks or menu items--whatever suits your program.

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school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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This is the Debian GNU prepackaged version of mawk, an implementation  
of the AWK Programming Language. mawk was written by Mike Brennan  
<brennan@whidbey.com>

This package was put together by Chris Fearnley <cjf@netaxs.com>,  
from sources obtained from:

ftp://ftp.whidbey.net/pub/brennan/mawk1.3.3.tar.gz

It is currently being maintained by James Troup <james@nocrew.org>.

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## 1.233 mesa 10.3.2-1+deb8u1

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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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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

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## 1.235 mina-core 2.0.7

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```

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```
# ck-copyright-notice can be run from the tools directory
dir=`pwd`
[ -d src ] || [ "$(basename "$dir")" != tools ] || cd ..
```

```
# Note: if paragraphs are reformatted, this may need to be updated.
```

```

lgpl="`sed -n '/version [0-9.]* or any later version/ {
s/*version //
s/ or.*//
p
q
}` doc/mpfr.texi`"

# Do not use "find ... | while read file do ... done" because the "do"
# part needs to be run in the current shell, and some shells behave in
# a different way.
srctests=`find src tests -name '*.ch`^

err=0
for file in $srctests
do
y=""
case $file in
tests/RRTest.c)
# This file doesn't have a copyright notice, but isn't distributed.
continue ;;
src/mpfr-longlong.h)
# This file (which comes from GMP) has a specific copyright notice.
continue ;;
src/get_patches.c)
file="tools/get_patches.sh" ;;
*/mparam.h)
y="2005," ;;
esac
grep -q "Copyright $y.* Free Software Foundation" "$file" && \
grep -q "GNU MPFR Library" "$file" && \
grep -q "either version $lgpl of the License" "$file" && continue
echo "Possibly missing or incorrect copyright notice in $file"
err=1
done

exit $err
@c MPFR tweak: Have this in mpfr.texi to help texinfo-mode
@c @node GNU Free Documentation License
@c @appendixsec GNU Free Documentation License

@cindex GNU Free Documentation License
@center Version 1.2, November 2002

@display
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51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA

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# 1.238 mx4j 3.0.1

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# 1.240 nano 2.2.6 :1.0

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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## 1.245 net-snmp 5.7.2 :18.el7

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#### ARCFOUR

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#### CAST128

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#### DES

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#### MD2

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#### MD4

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#### MD5

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#### SHA1

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#### SHA224, SHA256, SHA384, and SHA512

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#### TWOFISH

The implementation of the TWOFISH cipher is written by Ruud de Rooij. Released under the LGPL.

#### RSA

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Files: dsa2sexp.c

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Files: testsuite/des-compat-test.c

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That's all there is to it!  
This is the Debian version of the newt library.  
newt was written by Erik Troan <ewt@redhat.com>.

The original package was put together by Enrique Zanardi <ezanard@debian.org>, from sources obtained from:  
<ftp://ftp.redhat.com/pub/redhat/redhat-7.0-en/os/i386/SRPMS/newt-0.50.17-1.src.rpm>  
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# 1.255 nginx 1.10.1

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## 1.256 nginx 1.8.0 :21 Apr 2015

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scriptversion=2005-07-09.11

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\* A 64-bit implementation of the NIST P-256 elliptic curve point multiplication

\*

\* OpenSSL integration was taken from Emilia Kasper's work in ecp\_nistp224.c.

\* Otherwise based on Emilia's P224 work, which was inspired by my curve25519

\* work which got its smarts from Daniel J. Bernstein's work on the same.

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## 1.272 pam 1.1.8-3.1

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* Authors:
* Steve Grubb <sgrubb@redhat.com>
*
* PAM module that sets the login uid introduced in kernel 2.6.11
*/
```

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## 1.273 pango 1.36.8 :2.e17

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## 1.275 patch 2.7.5 :1

### 1.275.1 Available under license :

This is Debian's prepackaged version of patch, Larry Wall's program that allows you to apply diffs to a file automatically.

The current maintainer for this package is Laszlo Boszormenyi (GCS) <[gcs@debian.org](mailto:gcs@debian.org)>.

Previous maintainers were Bill Mitchell <[mitchell@mdd.comm.mot.com](mailto:mitchell@mdd.comm.mot.com)>, Darren Stalder <[torin@daft.com](mailto:torin@daft.com)>, Adrian Bunk <[bunk@fs.tum.de](mailto:bunk@fs.tum.de)>, Michael Fedrowitz <[michaelf@debian.org](mailto:michaelf@debian.org)> and Christoph Berg <[myon@debian.org](mailto:myon@debian.org)>.

The upstream source is available at '<ftp://ftp.gnu.org/gnu/patch/>', resp. '<ftp://alpha.gnu.org/gnu/diffutils/>'.

Upstream Maintainer: Paul Eggert <[eggert@twinsun.com](mailto:eggert@twinsun.com)>

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Version 3, 29 June 2007

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## 1.277 pciutils 3.2.1 :r0.0

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## 1.278 pcre 8.35 :04-April-2014

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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## 1.280 pcsc-lite 1.8.10 :1ubuntu1

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```
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## 1.281 pcsc-lite 1.8.10 :1.fc20

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

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```
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```

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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!

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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## 1.283 pigz 2.2.5 :1.e15

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 */
```

```
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```
*/  
/* yarn.h -- generic interface for thread operations  
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* Version 1.3 13 Jan 2012 Mark Adler  
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```

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# 1.289 postgresql-jdbc 9.4.1207

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## 1.290 procps 1:3.3.9-1ubuntu2.2

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## 1.291 protobuf 2.6.1

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- \* Small optimizations to Python serialization.

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- \* VI syntax highlighting tweaks.
- \* Fix compiler to not make output executable.

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- \* Heuristic detection of sub-messages when printing unknown fields in text format.

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- \* Added @Override annotation to generated Java code where appropriate.

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- \* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>

- \* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

- \* Slicing support for repeated scalar fields for the Python API.

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

# 1.292 protobuf-java 2.6.1

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## 1.294 python 2.7.9 :r1.4

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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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| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
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## 1.295 python 2.7.10

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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>)

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| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
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```

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```

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```

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

```
Ty Coon, President of Vice
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```

```
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```

Ty Coon, President of Vice

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## 1.303 reflectasm 1.10.1

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## 1.304 relaxngDatatype 20020414

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# 1.305 Rhino 1.5R4.1

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*/
```

```
package org.mozilla.javascript.tools.shell;
```

```
import java.security.*;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.Hashtable;
import java.util.Enumeration;
```

```

import org.mozilla.javascript.*;
import org.mozilla.classfile.*;

public class JavaPolicySecurity extends SecurityProxy
{

    private static class Loader extends ClassLoader
        implements GeneratedClassLoader
    {
        private ProtectionDomain domain;

        Loader(ClassLoader parent, ProtectionDomain domain) {
            super(parent != null ? parent : getSystemClassLoader());
            this.domain = domain;
        }

        public Class defineClass(String name, byte[] data) {
            return super.defineClass(name, data, 0, data.length, domain);
        }

        public void linkClass(Class cl) {
            resolveClass(cl);
        }
    }

    private static class ContextPermissions extends PermissionCollection
    {
        // Construct PermissionCollection that permits an action only
        // if it is permitted by staticDomain and by security context of Java stack on
        // the moment of constructor invocation
        ContextPermissions(ProtectionDomain staticDomain) {
            _context = AccessController.getContext();
            if (staticDomain != null) {
                _statisPermissions = staticDomain.getPermissions();
            }
            setReadOnly();
        }

        public void add(Permission permission) {
            throw new RuntimeException("NOT IMPLEMENTED");
        }

        public boolean implies(Permission permission) {
            if (_statisPermissions != null) {
                if (!_statisPermissions.implies(permission)) {
                    return false;
                }
            }
        }
    }
}

```

```

    }
    try {
        _context.checkPermission(permission);
        return true;
    } catch (AccessControlException ex) {
        return false;
    }
}

public Enumeration elements()
{
    return new Enumeration() {
        public boolean hasMoreElements() { return false; }
        public Object nextElement() { return null; }
    };
}

public String toString() {
    StringBuffer sb = new StringBuffer();
    sb.append(getClass().getName());
    sb.append('@');
    sb.append(Integer.toHexString(System.identityHashCode(this)));
    sb.append(" (context=");
    sb.append(_context);
    sb.append(", static_permissions=");
    sb.append(_staticPermissions);
    sb.append(')');
    return sb.toString();
}

AccessControlContext _context;
PermissionCollection _staticPermissions;
}

public JavaPolicySecurity() {
    // To trigger error on jdk-1.1 with lazy load
    new CodeSource(null, null);
}

protected void callProcessFileSecure(final Context cx,
                                     final Scriptable scope,
                                     final String filename)
{
    AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            URL url = getUriObj(filename);
            ProtectionDomain staticDomain = getUriDomain(url);
            Main.processFileSecure(cx, scope, url.toExternalForm(),

```

```

        staticDomain);
    return null;
    }
});
}

private URL getUrlObj(String url) {
    URL urlObj;
    try {
        urlObj = new URL(url);
    } catch (MalformedURLException ex) {
        // Assume as Main.processFileSecure it is file, need to build its
        // URL
        String curDir = System.getProperty("user.dir");
        curDir = curDir.replace("\\", "/");
        if (!curDir.endsWith("/")) {
            curDir = curDir+'/';
        }
        try {
            URL curDirURL = new URL("file:"+curDir);
            urlObj = new URL(curDirURL, url);
        } catch (MalformedURLException ex2) {
            throw new RuntimeException
                ("Can not construct file URL for '"+url+"':"+
                +ex2.getMessage());
        }
    }
    return urlObj;
}

private ProtectionDomain getUrlDomain(URL url) {
    CodeSource cs = new CodeSource(url, null);
    PermissionCollection pc = Policy.getPolicy().getPermissions(cs);
    return new ProtectionDomain(cs, pc);
}

public GeneratedClassLoader
createClassLoader(ClassLoader parentLoader, Object securityDomain) {
    ProtectionDomain domain = (ProtectionDomain)securityDomain;
    return new Loader(parentLoader, domain);
}

public Object getDynamicSecurityDomain(Object securityDomain)
{
    ProtectionDomain staticDomain = (ProtectionDomain)securityDomain;
    return getDynamicDomain(staticDomain);
}

```



```

private ProtectionDomain getDynamicDomain(ProtectionDomain staticDomain) {
    ContextPermissions p = new ContextPermissions(staticDomain);
    ProtectionDomain contextDomain = new ProtectionDomain(null, p);
    return contextDomain;
}

public Object execWithDomain(final Context cx, final Scriptable scope,
                             final Script script, Object securityDomain)
    throws JavaScriptException
{
    ProtectionDomain staticDomain = (ProtectionDomain)securityDomain;
    // There is no direct way in Java to intersect permissions according
    // stack context with additional domain.
    // The following implementation first constructs ProtectionDomain
    // that allows actions only allowed by both staticDomain and current
    // stack context, and then constructs AccessController for this dynamic
    // domain.
    // If this is too slow, alternative solution would be to generate
    // class per domain with a proxy method to call to infect
    // java stack.
    // Another optimization in case of scripts coming from "world" domain,
    // that is having minimal default privileges is to construct
    // one AccessControlContext based on ProtectionDomain
    // with least possible privileges and simply call
    // AccessController.doPrivileged with this untrusted context

    ProtectionDomain dynamicDomain = getDynamicDomain(staticDomain);
    ProtectionDomain[] tmp = { dynamicDomain };
    AccessControlContext restricted = new AccessControlContext(tmp);

    PrivilegedExceptionAction action = new PrivilegedExceptionAction() {
        public Object run() throws JavaScriptException {
            return script.exec(cx, scope);
        }
    };

    try {
        return AccessController.doPrivileged(action, restricted);
    } catch (PrivilegedActionException ex) {
        throw (JavaScriptException)(ex.getException());
    }
}
}
}
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\*/

```
import org.mozilla.javascript.*;
```

```
/**
```

```
* An example WrapFactory that can be used to avoid wrapping of Java types  

  * that can be converted to ECMA primitive values.  

  * So java.lang.String is mapped to ECMA string, all java.lang.Numbers are  

  * mapped to ECMA numbers, and java.lang.Booleans are mapped to ECMA booleans  

  * instead of being wrapped as objects. Additionally java.lang.Characters are  

  * converted to ECMA strings. Other types have the default behavior.
```

```
* <p>
```

```
* Note that calling "new java.lang.String('foo')" in JavaScript with this  

  * wrap factory enabled will still produce a wrapped Java object since the  

  * WrapFactory.wrapNewObject method is not overridden.
```

```
* <p>
```

```
* The PrimitiveWrapFactory is enabled on a Context by calling setWrapFactory  

  * on that context.
```

```
*/
```

```
public class PrimitiveWrapFactory extends WrapFactory {
```

```

public Object wrap(Context cx, Scriptable scope, Object obj,
                  Class staticType)
{
    if (obj instanceof String || obj instanceof Number ||
        obj instanceof Boolean)
    {
        return obj;
    } else if (obj instanceof Character) {
        char[] a = { ((Character)obj).charValue() };
        return new String(a);
    }
    return super.wrap(cx, scope, obj, staticType);
}
}
/* -*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -*-
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* the provisions above, a recipient may use your version of this

```

```

* file under either the NPL or the GPL.
*/

package org.mozilla.javascript.optimizer;

import java.util.Hashtable;
import java.lang.reflect.Method;

import org.mozilla.javascript.Invoker;
import org.mozilla.javascript.Context;
import org.mozilla.javascript.GeneratedClassLoader;
import org.mozilla.classfile.ByteCode;
import org.mozilla.classfile.ClassFileWriter;

/**
 * Avoid cost of java.lang.reflect.Method.invoke() by compiling a class to
 * perform the method call directly.
 */
public class InvokerImpl extends Invoker {

    public Invoker createInvoker(Context cx, Method method, Class[] types) {

        Invoker result;
        int classNum;
        synchronized (this) {
            if (invokersCache == null) {
                invokersCache = new Hashtable();
                ClassLoader parentLoader = cx.getApplicationClassLoader();
                classLoader = cx.createClassLoader(parentLoader);
            } else {
                result = (Invoker)invokersCache.get(method);
                if (result != null) { return result; }
            }
            classNum = ++classNumber;
        }

        String className = "inv" + classNum;

        ClassFileWriter cfw = new ClassFileWriter(className,
            "org.mozilla.javascript.Invoker", "");
        cfw.setFlags((short)(ClassFileWriter.ACC_PUBLIC |
            ClassFileWriter.ACC_FINAL));

        // Add our instantiator!
        cfw.startMethod("<init>", "()V", ClassFileWriter.ACC_PUBLIC);
        cfw.add(ByteCode.ALOAD_0);
        cfw.add(ByteCode.INVOKESPECIAL,
            "org.mozilla.javascript.Invoker",

```

```

    "<init>", "()", "V");
cfw.add(ByteCode.RETURN);
cfw.stopMethod((short)1, null); // one argument -- this??

// Add the invoke() method call
cfw.startMethod("invoke",
    "(Ljava/lang/Object;[Ljava/lang/Object;)+
    "Ljava/lang/Object;",
    (short)(ClassFileWriter.ACC_PUBLIC |
        ClassFileWriter.ACC_FINAL));

// If we return a primitive type, then do something special!
String declaringClassName = method.getDeclaringClass().getName
    ().replace('.', '/');
Class returnType = method.getReturnType();
String invokeSpecial = null;
String invokeSpecialType = null;
boolean returnsVoid = false;
boolean returnsBoolean = false;

if (returnType.isPrimitive()) {
    if (returnType == Boolean.TYPE) {
        returnsBoolean = true;
        invokeSpecialType = "(Z)";
    } else if (returnType == Void.TYPE) {
        returnsVoid = true;
        invokeSpecialType = "(V)";
    } else if (returnType == Integer.TYPE) {
        cfw.add(ByteCode.NEW, invokeSpecial = "java/lang/Integer");
        cfw.add(ByteCode.DUP);
        invokeSpecialType = "(I)";
    } else if (returnType == Long.TYPE) {
        cfw.add(ByteCode.NEW, invokeSpecial = "java/lang/Long");
        cfw.add(ByteCode.DUP);
        invokeSpecialType = "(J)";
    } else if (returnType == Short.TYPE) {
        cfw.add(ByteCode.NEW, invokeSpecial = "java/lang/Short");
        cfw.add(ByteCode.DUP);
        invokeSpecialType = "(S)";
    } else if (returnType == Float.TYPE) {
        cfw.add(ByteCode.NEW, invokeSpecial = "java/lang/Float");
        cfw.add(ByteCode.DUP);
        invokeSpecialType = "(F)";
    } else if (returnType == Double.TYPE) {
        cfw.add(ByteCode.NEW, invokeSpecial = "java/lang/Double");
        cfw.add(ByteCode.DUP);
        invokeSpecialType = "(D)";
    } else if (returnType == Byte.TYPE) {

```

```

        cfw.add(ByteCode.NEW, invokeSpecial = "java/lang/Byte");
        cfw.add(ByteCode.DUP);
        invokeSpecialType = "(B)";
    } else if (returnType == Character.TYPE) {
        cfw.add(ByteCode.NEW, invokeSpecial
            = "java/lang/Character");
        cfw.add(ByteCode.DUP);
        invokeSpecialType = "(C)";
    }
}

// handle setup of call to virtual function (if calling non-static)
if (!java.lang.reflect.Modifier.isStatic(method.getModifiers())) {
    cfw.add(ByteCode.ALOAD_1);
    cfw.add(ByteCode.CHECKCAST, declaringClassName);
}

// Handle parameters!
StringBuffer params = new StringBuffer(2 + ((types!=null)?(20 *
    types.length):0));

params.append('(');
if (types != null) {
    for(int i = 0; i < types.length; i++) {
        Class type = types[i];

        cfw.add(ByteCode.ALOAD_2);

        if (i <= 5) {
            cfw.add((byte) (ByteCode.ICONST_0 + i));
        } else if (i <= Byte.MAX_VALUE) {
            cfw.add(ByteCode.BIPUSH, i);
        } else if (i <= Short.MAX_VALUE) {
            cfw.add(ByteCode.SIPUSH, i);
        } else {
            cfw.addLoadConstant((int)i);
        }
    }

    cfw.add(ByteCode.AALOAD);

    if (type.isPrimitive()) {
        // Convert enclosed type back to primitive.

        if (type == Boolean.TYPE) {
            cfw.add(ByteCode.CHECKCAST, "java/lang/Boolean");
            cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Boolean",
                "booleanValue", "()", "Z");
            params.append("Z");
        }
    }
}

```

```

} else if (type == Integer.TYPE) {
    cfw.add(ByteCode.CHECKCAST, "java/lang/Number");
    cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Number",
        "intValue", "()", "I");
    params.append('I');
} else if (type == Short.TYPE) {
    cfw.add(ByteCode.CHECKCAST, "java/lang/Number");
    cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Number",
        "shortValue", "()", "S");
    params.append('S');
} else if (type == Character.TYPE) {
    cfw.add(ByteCode.CHECKCAST, "java/lang/Character");
    cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Character",
        "charValue", "()", "C");
    params.append('C');
} else if (type == Double.TYPE) {
    cfw.add(ByteCode.CHECKCAST, "java/lang/Number");
    cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Number",
        "doubleValue", "()", "D");
    params.append('D');
} else if (type == Float.TYPE) {
    cfw.add(ByteCode.CHECKCAST, "java/lang/Number");
    cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Number",
        "floatValue", "()", "F");
    params.append('F');
} else if (type == Byte.TYPE) {
    cfw.add(ByteCode.CHECKCAST, "java/lang/Byte");
    cfw.add(ByteCode.INVOKEVIRTUAL, "java/lang/Byte",
        "byteValue", "()", "B");
    params.append('B');
}
} else {
    String typeName = type.getName().replace('.', '/');
    cfw.add(ByteCode.CHECKCAST, typeName);

    if (!type.isArray()) {
        params.append('L');
    }
    params.append(typeName);

    if (!type.isArray()) {
        params.append(';');
    }
}
}
params.append('');

```

```

// Call actual function!
if (!java.lang.reflect.Modifier.isStatic(method.getModifiers())) {
    cfw.add(ByteCode.INVOKEVIRTUAL, declaringClassName,
            method.getName(), params.toString(),
            (invokeSpecialType!=null?invokeSpecialType.substring(1,2)
             :returnType.isArray()?
             returnType.getName().replace('.', '/')
             :"L".concat
             (returnType.getName().replace('.', '/').concat(";"))));
} else {
    cfw.add(ByteCode.INVOKESTATIC, declaringClassName,
            method.getName(), params.toString(),
            (invokeSpecialType!=null?invokeSpecialType.substring(1,2)
             :returnType.isArray()?
             returnType.getName().replace('.', '/')
             :"L".concat
             (returnType.getName().replace('.', '/').concat(";"))));
}

// Handle return value
if (returnsVoid) {
    cfw.add(ByteCode.ACONST_NULL);
    cfw.add(ByteCode.ARETURN);
} else if (returnsBoolean) {
    // HACK
    //check to see if true;
    // '7' is the number of bytes of the ifeq<branch> plus getstatic<TRUE> plus areturn instructions
    cfw.add(ByteCode.IFEQ, 7);
    cfw.add(ByteCode.GETSTATIC,
            "java/lang/Boolean",
            "TRUE",
            "Ljava/lang/Boolean;");
    cfw.add(ByteCode.ARETURN);
    cfw.add(ByteCode.GETSTATIC,
            "java/lang/Boolean",
            "FALSE",
            "Ljava/lang/Boolean;");
    cfw.add(ByteCode.ARETURN);
} else if (invokeSpecial != null) {
    cfw.add(ByteCode.INVOKESPECIAL,
            invokeSpecial,
            "<init>", invokeSpecialType, "V");
    cfw.add(ByteCode.ARETURN);
} else {
    cfw.add(ByteCode.ARETURN);
}

cfw.stopMethod((short)3, null); // three arguments, including the this pointer???

```



```

byte[] bytes = cfw.toByteArray();

// Add class to our classloader.
Class c = classLoader.defineClass(className, bytes);
classLoader.linkClass(c);
try {
    result = (Invoker)c.newInstance();
} catch (InstantiationException e) {
    throw new RuntimeException("unexpected " + e.toString());
} catch (IllegalAccessException e) {
    throw new RuntimeException("unexpected " + e.toString());
}
}
if (false) {
    System.out.println
        ("Generated method delegate for: "+method.getName()
        +" on "+method.getDeclaringClass().getName()+" :: "
        +params.toString()+" :: "+types);
}
}
invokersCache.put(method, result);
return result;
}

public Object invoke(Object that, Object [] args) {
    return null;
}

int classNumber;
Hashtable invokersCache;
GeneratedClassLoader classLoader;
}
/* -*- Mode: java; tab-width: 8; indent-tabs-mode: nil; c-basic-offset: 4 -*-
*
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```
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* the provisions above, a recipient may use your version of this  
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*/
```

```
package org.mozilla.javascript.regexp;  
  
import org.mozilla.javascript.*;  
  
/**  
 *  
 */  
public class RegExpImpl implements RegExpProxy {  
  
    public RegExpImpl() {  
        parens = new ObjArray();  
    }  
  
    public boolean isRegExp(Object obj) {  
        return obj instanceof NativeRegExp;  
    }  
  
    public Object newRegExp(Context cx, Scriptable scope, String source,  
                             String global, boolean flat)  
    {  
        return new NativeRegExp(cx, scope, source, global, flat);  
    }  
  
    public Object match(Context cx, Scriptable scope,  
                        Scriptable thisObj, Object[] args)  
        throws JavaScriptException  
    {  
        MatchData mdata = new MatchData();  
        mdata.optarg = 1;  
        mdata.mode = GlobData.GLOB_MATCH;  
        mdata.parent = ScriptableObject.getTopLevelScope(scope);  
        Object rval = matchOrReplace(cx, scope, thisObj, args,
```

```

        this, mdata, false);
    return mdata.arrayobj == null ? rval : mdata.arrayobj;
}

public Object search(Context cx, Scriptable scope,
    Scriptable thisObj, Object[] args)
    throws JavaScriptException
{
    MatchData mdata = new MatchData();
    mdata.optarg = 1;
    mdata.mode = GlobData.GLOB_SEARCH;
    mdata.parent = ScriptableObject.getTopLevelScope(scope);
    return matchOrReplace(cx, scope, thisObj, args, this, mdata, false);
}

public Object replace(Context cx, Scriptable scope,
    Scriptable thisObj, Object[] args)
    throws JavaScriptException
{
    Object arg1 = args.length < 2 ? Undefined.instance : args[1];
    String repstr = null;
    Function lambda = null;
    if (arg1 instanceof Function) {
        lambda = (Function) arg1;
    } else {
        repstr = ScriptRuntime.toString(arg1);
    }

    ReplaceData rdata = new ReplaceData();
    rdata.optarg = 2;
    rdata.mode = GlobData.GLOB_REPLACE;
    rdata.lambda = lambda;
    rdata.repstr = repstr == null ? null : repstr.toCharArray();
    rdata.dollar = repstr == null ? -1 : repstr.indexOf('$');
    rdata.charArray = null;
    rdata.length = 0;
    rdata.index = 0;
    rdata.leftIndex = 0;
    Object val = matchOrReplace(cx, scope, thisObj, args,
        this, rdata, true);
    char[] charArray;

    if (rdata.charArray == null) {
        if (rdata.global || val == null || !val.equals(Boolean.TRUE)) {
            /* Didn't match even once. */
            return rdata.str;
        }
    }
    int leftlen = this.leftContext.length;

```

```

    int length = leftlen + rdata.findReplen(cx, this);
    charArray = new char[length];
    SubString leftContext = this.leftContext;
    System.arraycopy(leftContext.charArray, leftContext.index,
        charArray, 0, leftlen);
    rdata.doReplace(cx, this, charArray, leftlen);
    rdata.charArray = charArray;
    rdata.length = length;
}

SubString rc = this.rightContext;
int rightlen = rc.length;
int length = rdata.length + rightlen;
charArray = new char[length];
System.arraycopy(rdata.charArray, 0,
    charArray, 0, rdata.charArray.length);
System.arraycopy(rc.charArray, rc.index, charArray,
    rdata.length, rightlen);
return new String(charArray, 0, length);
}

/**
 * Analog of C match_or_replace.
 */
private static Object matchOrReplace(Context cx, Scriptable scope,
    Scriptable thisObj, Object[] args,
    RegExpImpl reImpl,
    GlobData data, boolean forceFlat)
    throws JavaScriptException
{
    NativeRegExp re;

    String str = ScriptRuntime.toString(thisObj);
    data.str = str;
    Scriptable topScope = ScriptableObject.getTopLevelScope(scope);

    if (args.length == 0)
        re = new NativeRegExp(cx, topScope, "", "", false);
    else
        if (args[0] instanceof NativeRegExp) {
            re = (NativeRegExp) args[0];
        } else {
            String src = ScriptRuntime.toString(args[0]);
            String opt;
            if (data.optarg < args.length) {
                args[0] = src;
                opt = ScriptRuntime.toString(args[data.optarg]);
            } else {

```

```

        opt = null;
    }
    re = new NativeRegExp(cx, topScope, src, opt, forceFlat);
}
data.regexp = re;

data.global = (re.getFlags() & NativeRegExp.JSREG_GLOB) != 0;
int[] indexp = { 0 };
Object result = null;
if (data.mode == GlobData.GLOB_SEARCH) {
    result = re.executeRegExp(cx, scope, reImpl,
        str, indexp, NativeRegExp.TEST);
    if (result != null && result.equals(Boolean.TRUE))
        result = new Integer(reImpl.leftContext.length);
    else
        result = new Integer(-1);
} else if (data.global) {
    re.setLastIndex(0);
    for (int count = 0; indexp[0] <= str.length(); count++) {
        result = re.executeRegExp(cx, scope, reImpl,
            str, indexp, NativeRegExp.TEST);
        if (result == null || !result.equals(Boolean.TRUE))
            break;
        data.doGlobal(cx, scope, count, reImpl);
        if (reImpl.lastMatch.length == 0) {
            if (indexp[0] == str.length())
                break;
            indexp[0]++;
        }
    }
} else {
    result = re.executeRegExp(cx, scope, reImpl, str, indexp,
        ((data.mode == GlobData.GLOB_REPLACE)
        ? NativeRegExp.TEST
        : NativeRegExp.MATCH));
}

return result;
}

```

```

public int find_split(Scriptable scope, String target, String separator,
    Object reObj, int[] ip, int[] matchlen,
    boolean[] matched, String[][] parens)
{
    int i = ip[0];
    int length = target.length();

```

```

int result;
Context cx = Context.getCurrentContext();

int version = cx.getLanguageVersion();
NativeRegExp re = (NativeRegExp) reObj;
again:
while (true) { // imitating C label
    /* JS1.2 deviated from Perl by never matching at end of string. */
    int ipsave = ip[0]; // reuse ip to save object creation
    ip[0] = i;
    Object ret = re.executeRegExp(cx, scope, this, target, ip,
        NativeRegExp.TEST);
    if (ret != Boolean.TRUE) {
        // Mismatch: ensure our caller advances i past end of string.
        ip[0] = ipsave;
        matchlen[0] = 1;
        matched[0] = false;
        return length;
    }
    i = ip[0];
    ip[0] = ipsave;
    matched[0] = true;

    SubString sep = this.lastMatch;
    matchlen[0] = sep.length;
    if (matchlen[0] == 0) {
        /*
         * Empty string match: never split on an empty
         * match at the start of a find_split cycle. Same
         * rule as for an empty global match in
         * match_or_replace.
         */
        if (i == ip[0]) {
            /*
             * "Bump-along" to avoid sticking at an empty
             * match, but don't bump past end of string --
             * our caller must do that by adding
             * sep->length to our return value.
             */
            if (i == length) {
                if (version == Context.VERSION_1_2) {
                    matchlen[0] = 1;
                    result = i;
                }
                else
                    result = -1;
                break;
            }
        }
    }
}

```

```

        i++;
        continue again; // imitating C goto
    }
}
// PR_ASSERT((size_t)i >= sep->length);
result = i - matchlen[0];
break;
}
int size = parens.size();
parens[0] = new String[size];
for (int num = 0; num < size; num++) {
    SubString parsub = getParenSubString(num);
    parens[0][num] = parsub.toString();
}
return result;
}

/**
 * Analog of REGEXP_PAREN_SUBSTRING in C jsregexp.h.
 * Assumes zero-based; i.e., for $3, i==2
 */
SubString getParenSubString(int i) {
    if (i >= parens.size())
        return SubString.emptySubString();
    return (SubString) parens.get(i);
}

String    input;    /* input string to match (perl $_, GC root) */
boolean   multiline; /* whether input contains newlines (perl $*) */
ObjArray  parens;   /* Vector of SubString; last set of parens
                    matched (perl $1, $2) */
SubString lastMatch; /* last string matched (perl $&) */
SubString lastParen; /* last paren matched (perl $+) */
SubString leftContext; /* input to left of last match (perl `$)` */
SubString rightContext; /* input to right of last match (perl `$)` */
}

abstract class GlobData {
    static final int GLOB_MATCH = 1;
    static final int GLOB_REPLACE = 2;
    static final int GLOB_SEARCH = 3;

    abstract void doGlobal(Context cx, Scriptable scope, int count,
                          RegExpImpl reImpl)
        throws JavaScriptException;

    byte mode; /* input: return index, match object, or void */
}

```

```

int   optarg; /* input: index of optional flags argument */
boolean global; /* output: whether regexp was global */
String str; /* output: 'this' parameter object as string */
NativeRegExp regexp; /* output: regexp parameter object private data */
Scriptable parent;
}

class MatchData extends GlobData {

    /*
     * Analog of match_glob() in jsstr.c
     */
    void doGlobal(Context cx, Scriptable scope, int count, RegExpImpl reImpl)
        throws JavaScriptException
    {
        MatchData mdata;
        Object v;

        mdata = this;
        if (arrayobj == null) {
            Scriptable s = ScriptableObject.getTopLevelScope(scope);
            arrayobj = ScriptRuntime.newObject(cx, s, "Array", null);
        }
        SubString matchsub = reImpl.lastMatch;
        String matchstr = matchsub.toString();
        arrayobj.put(count, arrayobj, matchstr);
    }

    Scriptable arrayobj;
}

class ReplaceData extends GlobData {

    ReplaceData() {
        dollar = -1;
    }

    /*
     * Analog of replace_glob() in jsstr.c
     */
    void doGlobal(Context cx, Scriptable scope, int count, RegExpImpl reImpl)
        throws JavaScriptException
    {
        ReplaceData rdata = this;

        SubString lc = reImpl.leftContext;

```



```

char[] leftArray = lc.charArray;
int leftIndex = rdata.leftIndex;

int leftlen = reImpl.lastMatch.index - leftIndex;
rdata.leftIndex = reImpl.lastMatch.index + reImpl.lastMatch.length;
int replen = findReplen(cx, reImpl);
int growth = leftlen + replen;
char[] charArray;
if (rdata.charArray != null) {
    charArray = new char[rdata.length + growth];
    System.arraycopy(rdata.charArray, 0, charArray, 0, rdata.length);
} else {
    charArray = new char[growth];
}

rdata.charArray = charArray;
rdata.length += growth;
int index = rdata.index;
rdata.index += growth;
System.arraycopy(leftArray, leftIndex, charArray, index, leftlen);
index += leftlen;
doReplace(cx, reImpl, charArray, index);
}

static SubString dollarStr = new SubString("$");

static SubString interpretDollar(Context cx, RegExpImpl res,
    char[] da, int dp, int bp, int[] skip)
{
    char[] ca;
    int cp;
    char dc;
    int num, tmp;

    /* Allow a real backslash (literal "\\") to escape "$1" etc. */
    if (da[dp] != '$')
        throw new RuntimeException();
    if ((cx.getLanguageVersion() != Context.VERSION_DEFAULT)
        && (cx.getLanguageVersion() <= Context.VERSION_1_4))
        if (dp > bp && da[dp-1] == '\\')
            return null;

    if (dp+1 >= da.length)
        return null;
    /* Interpret all Perl match-induced dollar variables. */
    dc = da[dp+1];
    if (NativeRegExp.isDigit(dc)) {

```

```

if ((cx.getLanguageVersion() != Context.VERSION_DEFAULT)
    && (cx.getLanguageVersion() <= Context.VERSION_1_4)) {
    if (dc == '0')
        return null;
    /* Check for overflow to avoid gobbling arbitrary decimal digits. */
    num = 0;
    ca = da;
    cp = dp;
    while (++cp < ca.length && NativeRegExp.isDigit(dc = ca[cp])) {
        tmp = 10 * num + NativeRegExp.unDigit(dc);
        if (tmp < num)
            break;
        num = tmp;
    }
}
else { /* ECMA 3, 1-9 or 01-99 */
    int parenCount = res.parens.size();
    num = NativeRegExp.unDigit(dc);
    if (num > parenCount)
        return null;
    cp = dp + 2;
    if ((dp + 2) < da.length) {
        dc = da[dp + 2];
        if (NativeRegExp.isDigit(dc)) {
            tmp = 10 * num + NativeRegExp.unDigit(dc);
            if (tmp <= parenCount) {
                cp++;
                num = tmp;
            }
        }
    }
    if (num == 0) return null; /* $0 or $00 is not valid */
}
/* Adjust num from 1 $n-origin to 0 array-index-origin. */
num--;
skip[0] = cp - dp;
return res.getParenSubString(num);
}

skip[0] = 2;
switch (dc) {
    case '$':
        return dollarStr;
    case '&':
        return res.lastMatch;
    case '+':
        return res.lastParen;
    case '^':

```

```

if (cx.getLanguageVersion() == Context.VERSION_1_2) {
    /*
     * JS1.2 imitated the Perl4 bug where left context at each step
     * in an iterative use of a global regexp started from last match,
     * not from the start of the target string. But Perl4 does start
     * `$` at the beginning of the target string when it is used in a
     * substitution, so we emulate that special case here.
     */
    res.leftContext.index = 0;
    res.leftContext.length = res.lastMatch.index;
}
return res.leftContext;
case "\":
    return res.rightContext;
}
return null;
}

/**
 * Corresponds to find_replen in jsstr.c. rdata is 'this', and
 * the result parameter sizep is the return value (errors are
 * propagated with exceptions).
 */
int findReplen(Context cx, RegExpImpl reImpl)
    throws JavaScriptException
{
    if (lambda != null) {
        // invoke lambda function with args lastMatch, $1, $2, ... $n,
        // leftContext.length, whole string.
        ObjArray parens = reImpl.parens;
        int parenCount = parens.size();
        Object[] args = new Object[parenCount + 3];
        args[0] = reImpl.lastMatch.toString();
        for (int i=0; i < parenCount; i++) {
            SubString sub = (SubString) parens.get(i);
            args[i+1] = sub.toString();
        }
        args[parenCount+1] = new Integer(reImpl.leftContext.length);
        args[parenCount+2] = str;
        Scriptable parent = lambda.getParentScope();
        Object result = lambda.call(cx, parent, parent, args);

        this.repstr = ScriptRuntime.toString(result).toCharArray();
        return this.repstr.length;
    }

    int replen = this.repstr.length;
    if (dollar == -1)

```

```

        return replen;

int bp = 0;
for (int dp = dollar; dp < this.repstr.length ; ) {
    char c = this.repstr[dp];
    if (c != '$') {
        dp++;
        continue;
    }
    int[] skip = { 0 };
    SubString sub = interpretDollar(cx, reImpl, this.repstr, dp,
                                   bp, skip);
    if (sub != null) {
        replen += sub.length - skip[0];
        dp += skip[0];
    }
    else
        dp++;
}
return replen;
}

/**
 * Analog of do_replace in jsstr.c
 */
void doReplace(Context cx, RegExpImpl regExpImpl, char[] charArray,
               int arrayIndex)
{
    int cp = 0;
    char[] da = repstr;
    int dp = this.dollar;
    int bp = cp;
    if (dp != -1) {
        outer:
        for (;;) {
            int len = dp - cp;
            System.arraycopy(repstr, cp, charArray, arrayIndex,
                             len);
            arrayIndex += len;
            cp = dp;
            int[] skip = { 0 };
            SubString sub = interpretDollar(cx, regExpImpl, da,
                                           dp, bp, skip);
            if (sub != null) {
                len = sub.length;
                if (len > 0) {
                    System.arraycopy(sub.charArray, sub.index, charArray,
                                     arrayIndex, len);
                }
            }
        }
    }
}

```

```

    }
    arrayIndex += len;
    cp += skip[0];
    dp += skip[0];
  }
  else
    dp++;
  if (dp >= repstr.length) break;
  while (repstr[dp] != '$') {
    dp++;
    if (dp >= repstr.length) break outer;
  }
}
}
if (repstr.length > cp) {
  System.arraycopy(repstr, cp, charArray, arrayIndex,
    repstr.length - cp);
}
}

Function lambda; /* replacement function object or null */
char[] repstr; /* replacement string */
int dollar; /* -1 or index of first $ in repstr */
char[] charArray; /* result characters, null initially */
int length; /* result length, 0 initially */
int index; /* index in result of next replacement */
int leftIndex; /* leftContext index, always 0 for JS1.2 */
}

```

## 1.306 rsync 3.1.1-3

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## 1.308 ruby 2.1.6

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1.

2.

(a)

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(c)



(d)

3.

(a)

(b)

(c)

(d)

4.

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5.

6.

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regenc.[ch]:
regerror.c:
regex.c:
regint.h:
regparse.[ch]:
enc/ascii.c
```



enc/big5.c  
enc/cp949.c  
enc/emacs\_mule.c  
enc/encdb.c  
enc/euc\_jp.c  
enc/euc\_kr.c  
enc/euc\_tw.c  
enc/gb18030.c  
enc/gb2312.c  
enc/gbk.c  
enc/iso\_8859\_1.c  
enc/iso\_8859\_10.c  
enc/iso\_8859\_11.c  
enc/iso\_8859\_13.c  
enc/iso\_8859\_14.c  
enc/iso\_8859\_15.c  
enc/iso\_8859\_16.c  
enc/iso\_8859\_2.c  
enc/iso\_8859\_3.c  
enc/iso\_8859\_4.c  
enc/iso\_8859\_5.c  
enc/iso\_8859\_6.c  
enc/iso\_8859\_7.c  
enc/iso\_8859\_8.c  
enc/iso\_8859\_9.c  
enc/koi8\_r.c  
enc/koi8\_u.c  
enc/shift\_jis.c  
enc/unicode.c  
enc/us\_ascii.c  
enc/utf\_16be.c  
enc/utf\_16le.c  
enc/utf\_32be.c  
enc/utf\_32le.c  
enc/utf\_8.c  
enc/windows\_1251.c

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random.c

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A C-program for MT19937, with initialization improved 2002/2/10.  
Coded by Takuji Nishimura and Makoto Matsumoto.  
This is a faster version by taking Shawn Cokus's optimization,  
Matthe Bellew's simplification, Isaku Wada's real version.

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

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Any feedback is very welcome.

<http://www.math.keio.ac.jp/matumoto/emt.html>

email: [matumoto@math.keio.ac.jp](mailto:matumoto@math.keio.ac.jp)

vsnprintf.c:

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missing/dup2.c:  
missing/erf.c:  
missing/finite.c:  
missing/hypot.c:  
missing/isinf.c:  
missing/isnan.c:  
missing/lgamma\_r.c:  
missing/memcmp.c:  
missing/memmove.c:  
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missing/strstr.c:  
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missing/tgamma.c:  
ext/digest/sha1/sha1.[ch]:

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missing/setproctitle.c

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missing/strlcat.c

missing/strncpy.c

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missing/langinfo.c

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L. Peter Deutsch  
ghost@aladdin.com

ext/digest/rmd160/rmd160.[ch]:

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AUTHOR: Antoon Bosselaers, ESAT-COSIC  
(Arranged for libc by Todd C. Miller)

DATE: 1 March 1996

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ext/socket/getaddrinfo.c:

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= Contributors to Ruby

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

== A

Ayumu AIZAWA (ayumin)  
\* committer

AKIYOSHI, Masamichi (akiyoshi)

- \* committer

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

Muhammad Ali

- \* wrote rdoc for Fiber

Minero Aoki (aamine)

- \* committer

- \* He is the maintainer of:

- \* fileutils

- \* net/http, net/https

- \* net/pop

- \* net/smtp

- \* racc

- \* ripper

- \* strscan

Wakou Aoyama (wakou)

- \* committer

- \* He was the maintainer of some standard libraries.

Koji Arai

- \* committer

arton

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

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

== B

Daniel Berger

- \* a patch for irb

- \* documentation

- \* He wrote forwardable.rb

David Black (dblack)

- \* committer

- \* He is the maintainer of scanf

Ken Bloom

- \* a patch for REXML.

Oliver M. Bolzer

- \* a patch for soap

Alexey Borzenkov

- \* a patch for mkmf.rb

Richard Brown

\* a patch for configure.in

Dirkjan Bussink

\* a patch for date.rb

Daniel Bovensiepen

\* documentation

\* a patch for irb

== C

Brian Candler

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

keith cascio

\* a patch for optparse.rb

Frederick Cheung

\* a patch for test/ruby/test\_symbol.rb

Christoph

\* patches for set.rb

Sean Chittenden

\* patches for net/http, cgi

William D. Clinger

\* ruby\_strtod is based on his paper.

== D

Ryan Davis (ryan)

\* committer

\* He wrote and is the maintainer of miniunit

Guy Decoux (ts)

\* committer

Zach Dennis

Martin Duerst (duerst)

\* committer

\* M17N

Paul Duncan

\* patches for rdoc

Alexander Dymo

- \* a patch for lib/benchmark.rb

== E

Yusuke Endoh (mame)

- \* committer

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

- \* did much upon YARV compiler.

erlercw

- \* wrote Integer::gcd2

== F

Frank S.Fejes

- \* a patch for net/pop

Fundakowski Feldman

- \* a patch for process.c

Mauricio Fernandez

- \* patches for parse.y

David Flanagan (davidflanagan)

- \* committer

- \* M17N

Takeyuki Fujioka (xibbar)

- \* committer

- \* He is the maintainer of cgi/\*

FUKUMOTO, Atsushi

- \* a patch for tracer.rb

Shota Fukumori (sorah)

- \* committer

- \* #4415 parallel unit/test

Tadayoshi Funaba (tadf)

- \* committer

- \* He wrote and is the maintainer of

- \* date

- \* parsedate (1.8)

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

== G

David M. Gay

- \* ruby\_strtod

Florian Gilcher

- \* documentation

GOTOU, Kentaro (gotoken)

- \* committer

- \* He wrote benchmark.rb

- \* He is the maintainer of:

- \* benchmark.rb

- \* open3

GOTOU, Yuuzou (gotoyuzo)

- \* committer

James Edward Gray II (jeg2)

- \* committer

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

- \* Wrote documentation for rdoc

== H

Phil Hagelberg

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

Kirk Haines (wyhaines)

- \* committer

- \* the maintainer of ruby\_1\_8\_6 branch

Shinichiro Hamaji

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

Shin-ichiro HARA

- \* the developer and the sysop of ruby-`{dev,list,core,talk}` archive.

- \* a patch for numeric.c

Chris Heath (traumdeutung)

- \* a patch for proc.c

HIROKAWA Hisashi

- \* fixed socket/socket.c

Daniel Hob

- \* He wrote:

- \* SMTP-TLS support for net/smtp.

- \* POP3S support

Eric Hodel (drbrain)

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

Erik Hollensbe

- \* a patch for delegate.rb

Johan Holmberg

- \* a patch for dir.c
- \* documentation

Erik Huelsmann

Dae San Hwang

- \* built a continuous integration environment on OpenSolaris.

== I

Nobuhiro IMAI

- \* a patch for logger.rb

"incorporate"

- \* a patch for sprintf.c

Keiju Ishitsuka (keiju)

- \* committer
- \* He wrote and is the maintainer of:
  - \* cmath.rb (1.9)
  - \* complex.rb (1.8)
  - \* e2mmap.rb
  - \* forwardable.rb
  - \* irb
  - \* mathn
  - \* matrix.rb
  - \* mutex\_m.rb
  - \* rational.rb (1.8)
  - \* sync.rb
  - \* shell/\*
  - \* thwait.rb
  - \* tracer.rb

== J

Curtis Jackson



\* missing/dup2.c

Alan Johnson

\* a patch for net/ftp

Lyle Johnson

\* patches for nkf, bigdecimal, numeric.c

== K

Yoshihiro Kambayashi

\* a patch for enc/trans/single\_byte.trans.

\* He wrote supports for some encodings.

Yutaka Kanemoto

\* patches for common.mk, AIX AF\_INET6 support

Motoyuki Kasahara

\* He wrote getoptlong.rb

Masahiro Kawato

\* a patch for shellwords.rb

Wataru Kimura

\* a patch for configure.in

Michael Klishin

\* patch for make help.

Noritada Kobayashi

\* a patch for optparse.rb

Shigeo Kobayashi (shigek)

\* committer

\* He is the maintainer of bigdecimal

KONISHI, Hiromasa (H\_Konishi)

\* committer

\* He had maintained the bcc32 support in 2004.

Kornelius "murphy" Kalnbach

\* documentation

K.Kosako (kosako)

\* committer

\* He wrote Oniguruma.

Takehiro Kubo

- \* patches for dl 64bit support.

== L

Marc-Andre Lafortune (marcandre)

- \* committer

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

Hongli Lai

- \* improved pstore.rb

- \* patch for tool/file2lastrev.rb.

raspberry lemon

- \* a patch for webrick/httpproxy.rb.

Christian Loew

- \* a patch for fileutils.rb

== M

Shugo Maeda (shugo)

- \* committer

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

- \* He wrote and is the maintainer of:

- \* monitor.rb

- \* net/ftp

- \* net/imap

Stephan Maka (mathew)

- \* documentation

Yukihiro Matsumoto (matz)

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

- \* committer

- \* Ruby itself, most of Ruby.

- \* He is the maintainer of:

- \* singleton

- \* timeout

- \* gdbm

- \* sdbm

Konrad Meyer

- \* documentation

Mib Software

- \* missing/vsnprintf.c

Todd C. Miller

- \* missing/strlcat.c
- \* missing/strlcpy.c

MIYASAKA, Masaru

- \* a patch for cgi.rb

Stefan Monnier

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

Marcel Moolenaar

- \* patches for eval.c and gc.c.

moonwolf

- \* a patch for REXML, xmlrpc

Hiroshi Moriyama

- \* a patch for yaml.

Kyosuke Morohashi

- \* a patch for gem\_prelude.rb

Kenta Murata

- \* patches for json, bignum.c

Akinori MUSHA (knu)

- \* committer
- \* He wrote and is the maintainer of:
  - \* abbrev.rb
  - \* generator (1.8)
  - \* enumerator (1.8)
  - \* set
  - \* ipaddr.rb
  - \* digest/\*
  - \* syslog
- \* He is the branch maintainer of ruby\_1\_8, the release manager of 1.8 series.

== N

Hidetoshi NAGAI (nagai)

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

Nobuyoshi Nakada (nobu)

- \* committer
- \* a.k.a. the "patch monster"
- \* He wrote and is the maintainer of:
  - \* optparse
  - \* stringio

- \* io/wait
- \* iconv

Satoshi Nakagawa

- \* patches for util.c

Narihiro Nakamura (nari)

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

NAKAMURA, Hiroshi (nahi)

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

NAKAMURA, Usaku (usa)

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

NARUSE, Yui (naruse)

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

Christian Neukirchen

- \* a patch for webrick/httputils

Michael Neumann (mneumann)

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

NISHIO Hirokazu

- \* wrote a patch for CVE-2010-0541

Kazuhiro NISHIYAMA (kazu)

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

Go Noguchi

Martin Nordholts

\* misc/rdebug.el

nmu

\* a patch for socket

== O

okkez

\* He is a sysop of the Ruby Reference Manual Renewal Project.

\* fixed ipaddr.rb, ext/etc

Haruhiko Okumura

\* some of missing/\* is based on his book:

\* missing/erf.c

\* missing/lgamma\_r.c

\* missing/tgamma.c

OMAE, jun

\* a patch for debug.rb

Eugene Ossintsev

\* documentation

== P

Heesob Park

\* a patch for win32/win32.c.

pegacorn

\* a patch for instruby.rb

== Q

== R

Gaston Ramos

\* documentation

The Regents of the University of California

\* missing/crypt.c

\* missing/vsnprintf.c

Sam Roberts

\* patch for socket

\* documentation

Michal Rokos (michal)

\* committer

\* He was the maintainer of DJGPP support.

rubikitch

\* a patch for io.c

Marcus Rueckert

\* a patch for mkconfig.rb.

Run Paint Run Run

\* patch for enc/unicode.c

\* documentation

Sean Russell (ser)

\* committer

\* He wrote and is the maintainer of REXML.

== S

Kazuo Saito (ksaito)

\* committer

\* M17N

Tadashi Saito

\* patches for test/ruby/test\_math.rb, thread\_\*.c, bignum.c

\* working upon BigDecimal.

\* did much upon documentation

Masahiro Sakai

\* a patch for io.c

Laurent Sansonetti

\* a patch for tool/ytab.sed

Jeff Saracco

\* documentation

Koichi Sasada (ko1)

\* committer

\* He wrote YARV.

Hugh Sasse

\* a patch for net/http

\* documentation

Charlie Savage

\* a patch for win32/Makefile.sub

Michael Scholz

\* a patch for ruby-mode.el

Arthur Schreiber

\* patch for net/http and rdoc.

Masatoshi SEKI (seki)

\* committer

\* He wrote and is the maintainer of:

\* drb/\*

\* erb

\* rinda

Roman Shterenzon

\* a patch for open-uri.

Kent Sibilev

Gavin Sinclair (gsinclair)

\* committer

John W. Small

\* He wrote gserver.rb

Yuki Sonoda (yugui)

\* committer

\* She is the maintainer of man/\* manual pages and is the release manager of 1.9 series.

\* She wrote prime.rb.

\* A developer and a sysop of redmine.ruby-lang.org.

SOUMA, Yutaka

\* a patch for pack.c.

Tatsuki Sugiura

\* WebDAV support for net/http

Masaki Suketa (suke)

\* committer

\* He is the maintainer of win32ole

sheepman

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

Siena. (siena)

\* committer

Kirill A. Shutemov

\* a patch for parse.y

Darren Smith

\* a patch for golf\_prelude.rb

Richard M. Stallman

\* missing/alloca.c

Robin Stocker

\* documentation

Adam Strzelecki

\* a patch for compile.c

Masashi Sumi

\* improved net/pop.rb

Eric Sunshine

\* NeXT OpenStep, Rhapsody support

Kouhei Sutou (kou)

\* committer

\* He wrote and is the maintainer of rss/\*

David Symonds

\* documentation

== T

TAKANO Mitsuhiro (takano32)

\* committer

\* He is the maintainer of IA-64 support.

\* BigDecimal

TAKAO, Kouji (kouji)

\* committer

\* He is the maintainer of readline.

Nathaniel Talbott (ntalbott)

\* committer

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

TANAKA, Akira (akr)

\* committer

\* Did much upon m17n.

\* And he is the maintainer of:



- \* open-uri
- \* pathname
- \* pp
- \* resolv-replace
- \* resolv
- \* time
- \* tsort

Takaaki Tateishi (ttate)

- \* committer
- \* He was the maintainer of dl

Technorama Ltd. (technorama)

- \* committer
- \* openssl

Andrew Thompson

- \* a patch for socket.c IRIX support.

Dave Thomas (dave)

- \* committer
- \* a.k.a. the Pragmatic Programmer.
- \* He wrote rdoc.

Tietew

- \* patches for win32 support

Masahiro Tomita

- \* a patch for cgi.rb

Jakub Travnik

- \* a patch for eval.c

Tom Truscott

- \* missing/crypt.c

== U

UEDA, Satoshi

- \* a patch for uri

Takaaki Uematsu (uema2)

- \* committer
- \* He was the maintainer of WinCE support.

UENO, Katsuhiko (katsu)

- \* committer
- \* He is the maintainer of zlib

Hajimu UMEMOTO

\* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)

\* committer

\* a.k.a. mput.

\* He is the branch maintainer of ruby\_1\_8\_6 and ruby\_1\_8\_7

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

== V

Joel VanderWerf

\* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen

== W

wanabe (wanabe)

\* committer

\* fixed YARV and Oniguruma.

Chun Wang

\* a patch for time.rb

WATANABE, Hirofumi (eban)

\* committer

\* He is the maintainer of

\* ftools (1.8)

\* tmpdir

\* un

\* Win32API

WATANABE, Tetsuya

\* a patch for ruby.c

William Webber (wew)

\* committer

Jim Weirich (jim)

\* committer

\* He wrote Rake.

Nathan Weizenbaum

\* fixed misc/ruby-mode.el.

why the lucky stiff (why)

- \* committer

- \* He is the maintainer of syck

Caley Woods

- \* documentation

Gary Wright

- \* documentation

== X

== Y

Akira Yamada (akira)

- \* committer

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

Keita Yamaguchi

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

- \* documentation

Hirokazu Yamamoto (ocean)

- \* committer

Hirotaaka Yoshioka

- \* a patch for improving SEGV handling

== Z

Aristarkh A Zagorodnikov

- \* a patch for io.c

Alexander Zavorine

- \* committer

- \* He is the maintainer for Symbian OS.

Chiyuan Zhang

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

Dee Zsombor (zunda)

- \* a patch for thread\_pthread.c

Dan Zwell

- \* a patch for net/pop

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```
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```

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```
/*          _          */
**          _ // _   Scala API          **
** /_/_//_//_||// /_ | (c) 2002-2013, LAMP/EPFL          **
** _\|/_/_//_//_/_ | http://scala-lang.org/          **
** /_/_^_/_//|/_/_//||          **
**          |          **
\*          */
```

package scala.xml

```
/** This singleton object contains the `apply` and `unapplySeq` methods for
 * convenient construction and deconstruction. It is possible to deconstruct
 * any `Node` instance (that is not a `SpecialNode` or a `Group`) using the
 * syntax `case Elem(prefix, label, attribs, scope, child @ _) => ...`
 *
 * Copyright 2008 Google Inc. All Rights Reserved.
 * @author Burak Emir <bqe@google.com>
 */
```

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## 1.315 servlet-api 2.3

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## 1.318 sitemesh 2.4.2

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## 1.325 Spring Framework 4.2.3

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## **1.334 spring-jdbc 4.2.0**

## **1.335 spring-ldap-core-2.0.2.RELEASE 2.0.2**

## **1.336 spring-security-config-4.0.3.RELEASE 4.0.3**

## **1.337 spring-security-core-4.0.3.RELEASE 4.0.3**



# 1.338 spring-security-web-4.0.3.RELEASE

## 4.0.3

### 1.339 spring-tx 3.2.1

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## 1.343 StAX API 1.0.1

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FAQ:  
====

The questions and answers below try to summarize the intentions behind this licensing scheme.

Q: Is it possible to create derived works of syslog-ng under the GPL/LGPL licenses?

A: Yes, that's exactly the point of open source. Works derived from the plugins will have to use the GPL license, but you can choose to use LGPL for

them as well.

Q: Do I need to sign a Contributory License Agreement in order for my contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the syslog-ng core but not derived works of other plugins. Thus, non-free plugins are possible, provided they do not link to any of the GPLd plugins explicitly and the only connection between two plugins is via the syslog-ng core.

Q: Who is permitted to create non-free plugins for syslog-ng? Is it just BalaBit (the current copyright holder as of the initial 3.2 release)?

A: No, everyone including BalaBit.

This is syslog-ng, written and maintained by <bazsi@balabit.hu>  
on Sat, 03 Mar 2007 16:07:59 +0100

The original source can always be found at:  
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## 1.349 syslog-ng\_LGPLv2.1 3.5.6

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====

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# 1.350 syslog-ng\_libs 3.5.6 :4 Aug 2014

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## 1.352 systemd 215-17+deb8u2

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# 1.354 tar 1.26

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# 1.355 tar 1.27.1-2+b1

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## 1.359 tcpdump 4.6.2 :Sep. 2, 2014

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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd

- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
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- web-app\_3\_0.xsd
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- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

may be obtained from <http://java.sun.com/xml/ns/javaee/>

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## 1.364 tomcat-jdbc 7.0.47

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The original XML Schemas for Java EE Deployment Descriptors:

- jsp\_2\_2.xsd

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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd

- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
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- javaee\_web\_services\_1\_3.xsd
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- javaee\_web\_services\_client\_1\_3.xsd

- jsp\_2\_2.xsd

- web-app\_3\_0.xsd

- web-common\_3\_0.xsd

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# 1.365 tomcat-juli 7.0.55

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# 1.366 traceroute 2.0.20

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## 1.367 TXW2 Runtime 20110809

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\*/

// JSLitmus.js

//

// History:

// 2008-10-27: Initial release

// 2008-11-09: Account for iteration loop overhead

// 2008-11-13: Added OS detection

// 2009-02-25: Create tinyURL automatically, shift-click runs tests in reverse

//

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

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

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

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

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# 1.370 unzip 6.0-16+deb8u2

## 1.370.1 Available under license :

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---

### FIRST NOTE:

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Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

-----

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):  
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

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Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

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---

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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```
* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
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- \*
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- \* -----
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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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-----

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The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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```

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\* Fallback for old or obscure libcs without dynamically allocated cpusets

\*

\* The following macros are based on code from glibc.

\*

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## 1.372 util-linux 2.25

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## 1.373 util-linux / gplv3-portions 2.25.2-6

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```

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```
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```

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## 1.374 vim 7.4.488 :James McCoy 04 Nov 2014

## 1.375 vixie-cron 3.0.1 :69

### 1.375.1 Available under license :

```
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# *
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# * documentation (don't take credit for my work), mark your changes (don't
# * get me blamed for your possible bugs), don't alter or remove this
# * notice. May be sold if buildable source is provided to buyer. No
# * warrantee of any kind, express or implied, is included with this
# * software; use at your own risk, responsibility for damages (if any) to
# * anyone resulting from the use of this software rests entirely with the
# * user.
# *
# * Send bug reports, bug fixes, enhancements, requests, flames, etc., and
# * I'll try to keep a version up to date. I can be reached as follows:
# * Paul Vixie    <paul@vix.com>    uunet!decwrl!vixie!paul
# */
```

## 1.376 wget 1.16-1

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This package was debianized by

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## 1.377 wget 1.16

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```

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```
#!/bin/sh
```

```
#
```

```
# install - install a program, script, or datafile
```

```
# This comes from X11R5 (mit/util/scripts/install.sh).
```

```
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```

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#
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# 1.391 xml-commons-resolver 1.1

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# 1.392 xmlParserAPIs (Xerces-J) 2.6.2

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## 1.396 xz 5.1.2 :9alpha.el7

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# 1.397 zeromq 4.0.5

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Version 3, 29 June 2007

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```
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```

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## 1.398 zlib 1.2.3

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

\*/

## 1.399 zlib 1.2.8

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interface of the 'zlib' general purpose compression library  
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/\*

\* match.S -- optimized version of longest\_match()

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\*

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