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## 1.3 ncurses 5.7

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README for release 6b of 27-Mar-1998

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION

ROADMAP

=====

This file contains the following sections:

OVERVIEW        General description of JPEG and the IJG software.  
LEGAL ISSUES    Copyright, lack of warranty, terms of distribution.  
REFERENCES     Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
RELATED SOFTWARE Other stuff you should get.  
FILE FORMAT WARS Software \*not\* to get.  
TO DO           Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc     How to configure and install the IJG software.  
usage.doc       Usage instructions for cjpeg, djpeg, jpegtran,  
                 rdjpgcom, and wrjpgcom.  
\*.1             Unix-style man pages for programs (same info as usage.doc).  
wizard.doc     Advanced usage instructions for JPEG wizards only.  
change.log     Version-to-version change highlights.

Programmer and internal  
documentation:

libjpeg.doc    How to use the JPEG library in your own programs.  
example.c      Sample code for calling the JPEG library.  
structure.doc   Overview of the JPEG library's internal structure.  
filelist.doc   Road map of IJG files.  
coderules.doc  Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and

remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file `ansi2knr.c` for full details.) However, since `ansi2knr.c` is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (`config.guess`, `config.sub`, `ltconfig`, `ltmain.sh`). Another support script, `install-sh`, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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## REFERENCES

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We

highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", *Communications of the ACM*, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is

available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

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

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

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department  
C-Cube Microsystems, Inc.  
1778 McCarthy Blvd.  
Milpitas, CA 95035  
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme

found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

#### ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet address 192.48.96.9). The most recent released version can always be found there in directory <graphics/jpeg>. This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact [help@uunet.uu.net](mailto:help@uunet.uu.net) for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only <ftp.uu.net> is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the <ftp.uu.net> release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups <comp.graphics.misc>, <news.answers>, and other groups.

It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/>  
and other news.answers  
archive sites, including the official news.answers  
archive at [rtfm.mit.edu](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>.  
If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu)  
with body  
send usenet/news.answers/jpeg-faq/part1  
send usenet/news.answers/jpeg-faq/part2

## RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making `cjpeg/djpeg` considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,

notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>.

Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

## FILE FORMAT WARS

=====

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.

(For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format

has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether

SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).

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```
libbz2.dll test program.
```

```
by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
```

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```

```
usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
```

```
*/
```

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## 1.16 guava 18.0

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/miglayout-3-5-5-sources-jar/net/miginfocom/layout/BoundSize.java  
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 \*  
 \* @version 1.0  
 \* @author Mikael Grev, MiG InfoCom AB  
 \*     Date: 2006-sep-08  
 \*/  
 /\*\* Returns the absolute positioning of one or more of the edges. This will be applied last in the layout cycle and  
 will not  
 \* affect the flow or grid positions. The positioning is relative to the parent  
 and can not (as padding) be used  
 \* to adjust the edges relative to the old value. May be `null` and elements may be `null`.  
 \* `null` value(s) for the x2 and y2 will be interpreted as to keep the preferred size and thus the x1  
 \* and x2 will just absolutely position the component.  
 \* `<p>`  
 \* Note that { `@link #setBoundsInGrid(boolean)` } changes the interpretation of this property slightly.  
 \* `<p>`  
 \* For a more thorough explanation of what this constraint does see the white paper or cheat Sheet at  
[www.migcomponents.com](http://www.migcomponents.com).  
 \* @return The current value as a new array, free to modify.

\*/

Found in path(s):

\* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/CC.java

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\*

\* @version 1.0

\* @author Mikael Grev, MiG InfoCom AB

\* Date: 2006-sep-08

\*/

/\*\* Returns the gaps as pixel values.

\* @param parent The parent. Used to get the pixel values.

\* @param defGap The default gap to use if there is no gap set on this object (i.e. it is null).

\* @param

refSize The reference size used to get the pixel sizes.

\* @param before IF it is the gap before rather than the gap after to return.

\* @return The [min,preferred,max] sizes for the specified gap. Uses { @link

net.miginfocom.layout.LayoutUtil#NOT\_SET }

\* for gap sizes that are `null`. Returns `null` if there was no gap specified. A new and free to use array.

\*/

Found in path(s):

\* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/DimConstraint.java

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## 1.26 commons-http-client 3.1

### 1.26.1 Available under license :

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 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
 commons/httpclient/src/java/org/apache/commons/httpclient/Wire.java,v 1.9 2004/06/24 21:39:52 mbecke Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/Wire.java

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```
/*
*
* $HeadURL:https://svn.apache.org/repos/asf/jakarta/commons/proper/httpclient/trunk/src/java/org/apache/commons/
httpclient/cookie/CookieAttributeHandler.java $
* $Revision:400312 $
* $Date:2006-05-06 14:49:41 +0200 (Sat, 06 May 2006) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthenticationException.java,v 1.6 2004/05/13
04:02:00 mbecke Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
*
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*
*/
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commons/httpclient/src/java/org/apache/commons/httpclient/NTCredentials.java,v 1.10 2004/04/18 23:51:35
jsdever Exp $
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commons/httpclient/src/java/org/apache/commons/httpclient/HttpVersion.java,v 1.6 2004/12/20 19:52:50 olegk  
Exp \$

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commons/httpclient/src/java/org/apache/commons/httpclient/ConnectionPoolTimeoutException.java,v 1.1  
2004/07/05 22:46:58 olegk Exp \$

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commons/httpclient/src/java/org/apache/commons/httpclient/cookie/IgnoreCookiesSpec.java,v 1.6 2004/09/14  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/HeaderGroup.java,v 1.8 2004/05/13 04:03:25 mbecke  
Exp \$

\* \$Revision: 480424 \$

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

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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/HeaderGroup.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/GetMethod.java,v 1.29 2004/06/13 20:22:19 olegk Exp \$

\* \$Revision: 480424 \$

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

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/params/DefaultHttpParamsFactory.java,v 1.16 2004/11/20 21:48:47 mbecke Exp \$

\* \$Revision: 566065 \$

\* \$Date: 2007-08-15 10:34:30 +0200 (Wed, 15 Aug 2007) \$

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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/params/DefaultHttpParamsFactory.java  
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/\*  
 \* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
 commons/httpclient/src/java/org/apache/commons/httpclient/methods/OptionsMethod.java,v 1.15 2004/04/18  
 23:51:37 jsdever Exp \$  
 \* \$Revision: 480424 \$  
 \* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$  
 \*  
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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/OptionsMethod.java
No license file was found, but licenses were detected in source scan.
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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/StatusLine.java,v 1.14 2004/07/19 20:24:21 olegk Exp
$
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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```

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeParser.java,v 1.10 2004/05/13
04:02:00 mbecke Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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\*/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/AuthChallengeParser.java

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HostConfiguration.java,v 1.23 2005/01/14 21:16:40
olegk Exp $
* $Revision: 510585 $
* $Date: 2007-02-22 17:52:16 +0100 (Thu, 22 Feb 2007) $
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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/HostConfiguration.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HeaderElement.java,v 1.23 2004/05/13 04:03:25
mbecke Exp $
* $Revision: 480424 $
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/auth/DigestScheme.java,v 1.22 2004/12/30 11:01:27  
oglueck Exp \$

\* \$Revision: 480424 \$

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

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

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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/AuthChallengeException.java

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\* \$Header\$

\* \$Revision:400312 \$

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

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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/CookiePathComparator.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/DateUtil.java,v 1.2 2004/12/24 20:36:13 olegk
Exp $
* $Revision: 480424 $
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/DefaultMethodRetryHandler.java,v 1.4 2004/07/05  
22:46:58 olegk Exp \$

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

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/CircularRedirectException.java,v 1.1 2005/01/14

19:40:39 olegk Exp \$

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

commons/httpclient/src/java/org/apache/commons/httpclient/Header.java,v 1.17 2004/09/15 20:42:17 olegk Exp \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/auth/RFC2617Scheme.java,v 1.10 2004/05/13  
04:02:00 mbecke Exp \$  
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17:32:04 olegk Exp \$  
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Found in path(s):

\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/HttpAuthenticator.java  
No license file was found, but licenses were detected in source scan.

```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/MalformedChallengeException.java,v 1.6
2004/05/13 04:02:00 mbecke Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
 *
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Found in path(s):

```
*/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/MalformedChallengeException.java
No license file was found, but licenses were detected in source scan.
```

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

```

* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/multipart/FilePartSource.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $HeadRL$
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/InvalidRedirectLocationException.java  
No license file was found, but licenses were detected in source scan.

/\*

\* \$HeadURL:

[https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT\\_3\\_1/src/java/org/apache/commons/httpclient/methods/StringRequestEntity.java](https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/commons/httpclient/methods/StringRequestEntity.java) \$

\* \$Revision: 480424 \$

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

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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/StringRequestEntity.java

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ProxyHost.java,v 1.2 2005/01/14 21:16:40 olegk Exp
$
* $Revision: 510587 $
* $Date: 2007-02-22 17:56:08 +0100 (Thu, 22 Feb 2007) $
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```

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\*/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/ProxyHost.java

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/UsernamePasswordCredentials.java,v 1.14 2004/04/18
23:51:35 jsdever Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
*
* =====
*
*/
```

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/WireLogInputStream.java,v 1.15 2004/06/24 21:39:52  
mbecke Exp \$

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

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpConnectionManagerParams.java,v 1.9 2004/09/13 16:25:20 olegk Exp \$

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

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commons/httpclient/src/java/org/apache/commons/httpclient/Credentials.java,v 1.9 2004/04/18 23:51:34 jsdever  
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commons/httpclient/src/java/org/apache/commons/httpclient/protocol/DefaultProtocolSocketFactory.java,v 1.10  
2004/05/13 04:01:22 mbecke Exp \$  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/CredentialsProvider.java,v 1.6 2004/07/05

22:46:59 olegk Exp \$

\* \$Revision: 480424 \$

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

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commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethod.java,v 1.43 2004/10/07 16:14:15 olegk  
Exp \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/SimpleHttpConnectionManager.java,v 1.23  
2004/10/16 22:40:08 mbecke Exp \$  
\* \$Revision: 480424 \$  
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/\*  
\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethodRetryHandler.java,v 1.2 2004/09/14  
20:11:31 olegk Exp \$  
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\* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ConnectMethod.java,v 1.29 2004/06/24 21:39:52
mbecke Exp $
 * $Revision: 483949 $
 * $Date: 2006-12-08 12:34:50 +0100 (Fri, 08 Dec 2006) $
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```

Found in path(s):

```
*/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/ConnectMethod.java
```

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

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

```

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```

* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/params/HttpParamsFactory.java
No license file was found, but licenses were detected in source scan.

```

```

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

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

\* \$Revision: 480424 \$

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

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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/EntityEnclosingMethod.java

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

Exp \$

\* \$Revision: 480424 \$

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

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/\*\*

\* Provides an implementation of the NTLM authentication protocol.

\* <p>

\* This class provides methods for generating authentication  
\* challenge responses for the NTLM authentication protocol. The NTLM  
\* protocol is a proprietary Microsoft protocol and as such no RFC  
\* exists for it. This class is based upon the reverse engineering  
\* efforts of a wide range of people.</p>

\*

\* <p>Please note that an implementation of JCE must be correctly installed

and configured when

```
* using NTLM support.</p>
*
* <p>This class should not be used externally to HttpClient as it's API is specifically
* designed to work with HttpClient's use case, in particular it's connection management.</p>
*
* @author <a href="mailto:adrian@ephox.com">Adrian Sutton</a>
* @author <a href="mailto:jsdever@apache.org">Jeff Dever</a>
* @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
*
* @version $Revision: 480424 $ $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
* @since 3.0
*/
```

Found in path(s):

```
*/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/NTLM.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/StringPart.java,v 1.11 2004/04/18
23:51:37 jsdever Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/multipart/StringPart.java

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

\* \$Revision:400312 \$

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

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpMethodParams.java,v 1.17 2004/10/06  
17:32:04 olegk Exp \$

\* \$Revision: 483949 \$

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

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

\* \$Revision: 480424 \$

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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/params/HostParams.java

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/MultipartRequestEntity.java,v 1.1
2004/10/06 03:39:59 mbecke Exp $
* $Revision: 502647 $
* $Date: 2007-02-02 17:22:54 +0100 (Fri, 02 Feb 2007) $
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/RequestEntity.java,v 1.4 2004/05/17 21:46:03 olegk Exp \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpConnectionParams.java,v 1.6 2004/09/15  
20:32:21 olegk Exp \$  
\* \$Revision: 480424 \$  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/HttpParser.java,v 1.13 2005/01/11 13:57:06 oglueck  
Exp \$

\* \$Revision: 533405 \$  
\* \$Date: 2007-04-28 20:19:29 +0200 (Sat, 28 Apr 2007) \$

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commons/httpclient/src/java/org/apache/commons/httpclient/util/DateParseException.java,v 1.5 2004/11/06  
19:15:42 mbecke Exp \$  
\* \$Revision: 480424 \$  
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commons/httpclient/src/java/org/apache/commons/httpclient/HttpException.java,v 1.19 2004/09/30 18:53:20 olegk  
Exp \$

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commons/httpclient/src/java/org/apache/commons/httpclient/util/URLConnection.java,v 1.15 2004/04/18  
23:51:38 jsdever Exp \$  
\* \$Revision: 480424 \$  
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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/util/URLConnection.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthSchemeBase.java,v 1.7 2004/04/18 23:51:36  
jsdever Exp \$  
\* \$Revision: 480424 \$  
\* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$  
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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/AuthSchemeBase.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/PartSource.java,v 1.6 2004/04/18  
23:51:37 jsdever Exp \$

\* \$Revision: 480424 \$

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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/multipart/PartSource.java

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

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* $Revision: 480424 $
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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/util/IdleConnectionTimeoutThread.java
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```

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpURL.java,v 1.18 2004/09/30 17:26:41 oglueck
Exp $

```

```

* $Revision: 507324 $
* $Date: 2007-02-14 01:12:11 +0100 (Wed, 14 Feb 2007) $
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```

* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/HttpURL.java

```

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```

/*
* $HeadURL:
https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/com
mons/httpclient/util/ParameterFormatter.java $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/util/ParameterFormatter.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/HttpHost.java,v 1.3 2005/01/14 21:16:40 olegk Exp \$

\* \$Revision: 510587 \$

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

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

commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/ByteArrayPartSource.java,v 1.7

2004/04/18 23:51:37 jsdever Exp \$

\* \$Revision: 480424 \$

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

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/SSLProtocolSocketFactory.java,v 1.10  
2004/05/13 04:01:22 mbecke Exp \$

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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/protocol/SSLProtocolSocketFactory.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthScheme.java,v 1.12 2004/05/13 04:02:00
mbecke Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/methods/DeleteMethod.java,v 1.14 2004/04/18  
23:51:37 jsdever Exp \$  
\* \$Revision: 480424 \$  
\* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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* $HeadURL:
https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/com
mons/httpclient/methods/FileRequestEntity.java $
* $Revision: 486665 $
* $Date: 2006-12-13 15:19:07 +0100 (Wed, 13 Dec 2006) $
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethodBase.java,v 1.222 2005/01/14 21:16:40
olegk Exp $
* $Revision: 539441 $
* $Date: 2007-05-18 14:56:55 +0200 (Fri, 18 May 2007) $
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 \* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
 commons/httpclient/src/java/org/apache/commons/httpclient/methods/MultipartPostMethod.java,v 1.27 2004/10/06  
 03:39:59 mbecke Exp \$  
 \* \$Revision: 480424 \$  
 \* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/AutoCloseInputStream.java,v 1.9 2004/04/18 23:51:34  
jsdever Exp \$  
\* \$Revision: 505890 \$  
\* \$Date: 2007-02-11 12:25:25 +0100 (Sun, 11 Feb 2007) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/NoHttpResponseException.java,v 1.1 2004/07/05  
22:46:58 olegk Exp \$  
\* \$Revision: 480424 \$  
\* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/Cookie.java,v 1.44 2004/06/05 16:49:20 olegk Exp \$  
\* \$Revision: 531354 \$  
\* \$Date: 2007-04-23 08:53:20 +0200 (Mon, 23 Apr 2007) \$

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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/Cookie.java

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

\* \$Revision: 486658 \$

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

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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/HttpMethodDirector.java

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

```
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/HttpRecoverableException.java  
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```
/*
* $HeadURL:
https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/com
mons/httpclient/util/LangUtils.java $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/util/LangUtils.java
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```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ResponseConsumedWatcher.java,v 1.5 2004/04/18
23:51:35 jsdever Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
*

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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthScope.java,v 1.2 2004/06/23 06:50:25 olegk
Exp $
 * $Revision: 480424 $
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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/HttpAuthRealm.java,v 1.9 2004/06/12 22:47:23
olegk Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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*/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/HttpAuthRealm.java
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/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/NameValuePair.java,v 1.17 2004/04/18 23:51:35
jsdever Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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 \* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
 commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthChallengeProcessor.java,v 1.2 2004/04/18  
 23:51:36 jsdever Exp \$  
 \* \$Revision: 480424 \$  
 \* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/ContentLengthInputStream.java,v 1.12 2004/10/04  
22:05:44 olegk Exp \$  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/auth/CredentialsNotAvailableException.java,v 1.4 2004/05/13 04:02:00 mbecke Exp \$

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

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```
/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/CookiePolicy.java,v 1.15 2004/09/14 20:11:31
olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/FilePart.java,v 1.19 2004/04/18  
23:51:37 jsdever Exp \$  
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commons/httpclient/src/java/org/apache/commons/httpclient/auth/InvalidCredentialsException.java,v 1.4  
2004/05/13 04:02:00 mbecke Exp \$  
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commons/httpclient/src/java/org/apache/commons/httpclient/util/URIUtil.java,v 1.27 2004/05/05 20:34:01 olegk  
Exp \$  
\* \$Revision: 507321 \$

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22:46:58 olegk Exp \$

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commons/httpclient/src/java/org/apache/commons/httpclient/util/ParameterParser.java,v 1.5 2004/05/13 04:01:22  
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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/util/ParameterParser.java

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

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

\* \$Revision: 561099 \$

\* \$Date: 2007-07-30 21:41:17 +0200 (Mon, 30 Jul 2007) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/HttpConnectionManager.java,v 1.24 2004/07/05  
22:46:58 olegk Exp \$  
\* \$Revision: 480424 \$  
\* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/WireLogOutputStream.java,v 1.7 2004/06/24 21:39:52  
mbecke Exp \$  
\* \$Revision: 480424 \$  
\* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/CookieSpec.java,v 1.11 2004/09/14 20:11:31  
olegk Exp \$  
\* \$Revision: 480424 \$  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/util/IdleConnectionHandler.java,v 1.2 2004/05/13  
02:40:36 mbecke Exp \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpParams.java,v 1.6 2004/05/13 04:01:22 mbecke Exp \$

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

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 \* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
 commons/httpclient/src/java/org/apache/commons/httpclient/methods/PutMethod.java,v 1.26 2004/04/18 23:51:37  
 jsdever Exp \$  
 \* \$Revision: 480424 \$  
 \* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/MethodRetryHandler.java,v 1.5 2004/07/05 22:46:58  
olegk Exp \$

\* \$Revision: 480424 \$

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

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\* \$HeadURL:

[https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT\\_3\\_1/src/java/org/apache/commons/httpclient/URI.java](https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/commons/httpclient/URI.java) \$

```

* $Revision: 564973 $
* $Date: 2007-08-11 22:51:47 +0200 (Sat, 11 Aug 2007) $
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* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/MalformedCookieException.java,v 1.8
2004/05/13 04:02:00 mbecke Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/CookieSpecBase.java,v 1.28 2004/11/06  
19:15:42 mbecke Exp \$  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/params/HttpClientParams.java,v 1.7 2004/05/13  
04:01:22 mbecke Exp \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/params/DefaultHttpParams.java,v 1.9 2004/12/21  
23:15:21 olegk Exp \$  
\* \$Revision: 510589 \$  
\* \$Date: 2007-02-22 18:04:52 +0100 (Thu, 22 Feb 2007) \$

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commons/httpclient/src/java/org/apache/commons/httpclient/DefaultHttpMethodRetryHandler.java,v 1.3  
2004/12/20 11:47:46 olegk Exp \$  
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commons/httpclient/src/java/org/apache/commons/httpclient/methods/multipart/PartBase.java,v 1.5 2004/04/18  
23:51:37 jsdever Exp \$  
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/HttpConstants.java,v 1.15 2004/04/18 23:51:35  
jsdever Exp \$

\* \$Revision: 480424 \$

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

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

\* \$Revision: 480424 \$

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/methods/ByteArrayRequestEntity.java,v 1.3 2004/05/13 02:26:08 mbecke Exp \$

\* \$Revision: 480424 \$

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

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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/ByteArrayRequestEntity.java
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```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/DateParser.java,v 1.11 2004/11/06 19:15:42
mbecke Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/util/DateParser.java
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```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/util/ExceptionUtil.java,v 1.5 2004/10/19 18:09:46
olegk Exp $
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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/util/ExceptionUtil.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/auth/NTLMScheme.java,v 1.21 2004/05/13 04:02:00  
mbecke Exp \$  
\* \$Revision: 480424 \$  
\* \$Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) \$  
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/\*\* An implementation of the Microsoft proprietary NTLM authentication scheme. For a detailed  
\* explanation of the NTLM scheme please see <[a href="http://davenport.sourceforge.net/ntlm.html"](http://davenport.sourceforge.net/ntlm.html)>  
\* <http://davenport.sourceforge.net/ntlm.html></a>.  
\*  
\* @author <[a href="mailto:remm@apache.org"](mailto:remm@apache.org)>Remy Maucherat</a>

\* @author Rodney Waldhoff  
\* @author <a href="mailto:jsdever@apache.org">Jeff Dever</a>  
\* @author Ortwin Gl??ck  
\* @author Sean C. Sullivan  
\* @author <a href="mailto:adrian@ephox.com">Adrian Sutton</a>  
\* @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>  
\* @author <a href="mailto:oleg@ural.ru">Oleg Kalnichevski</a>  
\*/

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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/NTLMScheme.java

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

\* \$Revision: 480424 \$

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

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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/protocol/SecureProtocolSocketFactory.java

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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/auth/AuthPolicy.java,v 1.6 2004/05/13 04:02:00
mbecke Exp $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
 *
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 *
 */
/**
 * Authentication policy class. The Authentication policy provides corresponding
 * authentication scheme interfrace for a given type of authorization challenge.
 * <p>The following specifications are provided:
 * <ul>
 * <li><tt>Basic</tt>: Basic authentication scheme as defined in RFC2617
 * (considered inherently insecure, but most widely supported)
 * <li><tt>Digest</tt>: Digest authentication scheme as defined in RFC2617
 * <li><tt>NTLM</tt>:
 * The NTLM scheme is a proprietary Microsoft Windows
 * Authentication protocol (considered to be the most secure among
 * currently supported authentication schemes)
 * </ul>
 *
 */
```

\* @author <a href="mailto:oleg@ural.ru">Oleg Kalnichevski</a>

\*

\* @version \$Revision: 480424 \$

\* @since 3.0

\*/

/\*\*

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

\*/

Found in path(s):

\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/AuthPolicy.java

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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/HttpStatus.java,v 1.18 2004/05/02 11:21:13 olegk Exp  
\$

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

\* \$Revision: 480424 \$

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

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\* \$HeadURL:

[https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT\\_3\\_1/src/java/org/apache/commons/httpclient/cookie/RFC2965Spec.java](https://svn.apache.org/repos/asf/jakarta/httpcomponents/oac.hc3x/tags/HTTPCLIENT_3_1/src/java/org/apache/commons/httpclient/cookie/RFC2965Spec.java) \$

\* \$Revision: 507134 \$

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

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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/methods/HeadMethod.java,v 1.29 2004/06/13
20:22:19 olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/Protocol.java,v 1.10 2004/04/18 23:51:38  
jsdever Exp \$

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commons/httpclient/src/java/org/apache/commons/httpclient/HttpClient.java,v 1.98 2004/10/07 16:14:15 olegk Exp

\$

\* \$Revision: 509577 \$

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

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commons/httpclient/src/java/org/apache/commons/httpclient/ChunkedInputStream.java,v 1.24 2004/10/10 15:18:55  
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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/ChunkedInputStream.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-  
commons/httpclient/src/java/org/apache/commons/httpclient/MultiThreadedHttpConnectionManager.java,v 1.47  
2004/12/21 11:27:55 olegk Exp \$  
\* \$Revision: 564906 \$  
\* \$Date: 2007-08-11 14:27:18 +0200 (Sat, 11 Aug 2007) \$  
\*  
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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/MultiThreadedHttpConnectionManager.java  
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```
/*
 * $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/cookie/RFC2109Spec.java,v 1.21 2004/06/05
16:49:20 olegk Exp $
 * $Revision: 507134 $
 * $Date: 2007-02-13 19:18:05 +0100 (Tue, 13 Feb 2007) $
 *
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*/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/RFC2109Spec.java
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```

```
/*
 * $Header: $
 * $Revision: 480424 $
 * $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/TraceMethod.java
* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/CookieVersionSupport.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/protocol/ReflectionSocketFactory.java,v 1.4
2004/12/21 23:15:21 olegk Exp $
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
*
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/\*

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

\* \$Revision: 480424 \$

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

\*

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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/util/EncodingUtil.java

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/\*

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

\* \$Revision:400312 \$

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

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\* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/Cookie2.java

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## 1.28 urllib3 1.22

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# Contributions to the urllib3 project

## Creator & Maintainer

\* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

\* victor.vde <<http://code.google.com/u/victor.vde/>>

\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

\* kennethreitz <me@kennethreitz.com>

\* Bugfixes, suggestions, Requests integration

\* georgemarshall <<http://github.com/georgemarshall>>

\* Bugfixes, Improvements and Test coverage

\*

Thomas Kluyver <thomas@kluyver.me.uk>

\* Python 3 support

\* brandon-rhodes <<http://rhodesmill.org/brandon>>

\* Design review, bugfixes, test coverage.

\* studer <theo.studer@gmail.com>

\* IPv6 url support and test coverage

- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
- \* Support for explicitly closing pooled connections
  
- \* hartator <hartator@gmail.com>
- \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <thomas@t-8ch.de>
- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravello systems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield
- <<http://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>

- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <http://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <http://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer <asmeurer@gmail.com>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture

- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Jon Wayne Parrott <jonwayne@google.com>
- \* App Engine environment tests.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James  
Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <https://evanmeagher.net>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <jayvdb@gmail.com>
- \* Python 2.6 fixes; pyflakes and pep8 compliance

- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <ville.skytta@iki.fi>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jesse Shapiro <jesse@jesseshapiro.net>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <http://dafoster.net/>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.

- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.29 slf4j 1.7.25

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## 1.30 pkix-ssh 11.0

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## 1.31 ecj 3.12.3

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## 1.32 tcsh 6.20.00

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```
/*
 * config.h -- configure various defines for tcsh
 *
 * All source files should #include this FIRST.
 *
 * Edit this to match your system type.
 */

#ifndef _h_config
#define _h_config
/***** System dependant compilation flags *****/
/*
 * POSIX This system supports IEEE Std 1003.1-1988 (POSIX).
 */
#undef POSIX

/*
 * POSIXJOBS This system supports the optional IEEE Std 1003.1-1988 (POSIX)
 * job control facilities.
 */
#undef POSIXJOBS
```

```

/*
* VFORK This machine has a vfork().
* It used to be that for job control to work, this define
* was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
* I do this anyway on a Sun because of yellow pages brain damage,
* [should not be needed under 4.1]
* and on the iris4d cause SGI's fork is sufficiently "virtual"
* that vfork isn't necessary. (Besides, SGI's vfork is weird).
* Note that some machines
eg. rs6000 have a vfork, but not
* with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

/*
* BSDJOBS You have BSD-style job control (both process groups and
* a tty that deals correctly
*/
#define BSDJOBS

/*
* BSDTIMES You have BSD-style process time stuff (like rusage)
* This may or may not be true. For example, Apple Unix
* (OREO) has BSDJOBS but not BSDTIMES.
*/
#define BSDTIMES

/*
* BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
*/
#define BSDLIMIT

/*
* TERMIO You have struct termio instead of struct sgtyb.
* This is usually the case for SYSV systems, where
* BSD uses sgtyb. POSIX systems should define this
* anyway, even though they use struct termios.
*/
#undef TERMIO

/*
* SYSVREL Your machine is SYSV based (HPUX, A/UX)
* NOTE: don't do this if you are on a Pyramid -- tcsh is
* built in a BSD universe.
* Set SYSVREL to 1, 2, 3, or 4, depending the version of System V

```

```

* you are running.
Or set it to 0 if you are not SYSV based
*/
#define SYSVREL 0

/*
* YPBUGS Work around Sun YP bugs that cause expansion of ~username
* to send command output to /dev/null
*/
#undef YPBUGS

/***** local defines *****/

#endif /* _h_config */
/*-
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*/

```

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```

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it  
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```

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

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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## 1.35 glib 2.46.2

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```

/*
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. */

#ifndef 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_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);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const
    pcre16_extra *,
    PCRE_SPTR16, 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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```
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```

```
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* files for a list of changes. These files are distributed
with
* GLib at ftp://ftp.gtk.org/pub/gtk/.
*/
```

```
#ifndef __G_LIB_H__
#define __G_LIB_H__
```

```
#define __GLIB_H_INSIDE__
```

```
#include <glib/galloca.h>
#include <glib/garray.h>
#include <glib/gasyncqueue.h>
#include <glib/gatomic.h>
#include <glib/gbacktrace.h>
#include <glib/gbase64.h>
#include <glib/gbitlock.h>
#include <glib/gbookmarkfile.h>
#include <glib/gbytes.h>
#include <glib/gcharset.h>
#include <glib/gchecksum.h>
#include <glib/gconvert.h>
#include <glib/gdataset.h>
#include <glib/gdate.h>
#include <glib/gdatetime.h>
#include <glib/gdir.h>
#include <glib/genviron.h>
#include <glib/gerror.h>
#include <glib/gfileutils.h>
#include <glib/ggettext.h>
#include <glib/ghash.h>
#include <glib/ghmac.h>
#include <glib/ghook.h>
#include <glib/ghostutils.h>
#include <glib/giochannel.h>
#include <glib/gkeyfile.h>
#include <glib/glist.h>
#include <glib/gmacros.h>
#include <glib/gmain.h>
#include <glib/gmappedfile.h>
```

```

#include <glib/gmarkup.h>
#include <glib/gmem.h>
#include <glib/gmessages.h>
#include
  <glib/gnode.h>
#include <glib/goption.h>
#include <glib/gpattern.h>
#include <glib/gpoll.h>
#include <glib/gprimes.h>
#include <glib/gqsort.h>
#include <glib/gquark.h>
#include <glib/gqueue.h>
#include <glib/grand.h>
#include <glib/gregex.h>
#include <glib/gscanner.h>
#include <glib/gsequence.h>
#include <glib/gshell.h>
#include <glib/gslice.h>
#include <glib/gslist.h>
#include <glib/gspawn.h>
#include <glib/gstrfuncs.h>
#include <glib/gstring.h>
#include <glib/gstringchunk.h>
#include <glib/gtestutils.h>
#include <glib/gthread.h>
#include <glib/gthreadpool.h>
#include <glib/gtimer.h>
#include <glib/gtimezone.h>
#include <glib/gtrashstack.h>
#include <glib/gtree.h>
#include <glib/gtypes.h>
#include <glib/gunicode.h>
#include <glib/gurifuncs.h>
#include <glib/gutils.h>
#include <glib/gvarianttype.h>
#include <glib/gvariant.h>
#include <glib/gversion.h>
#include <glib/gversionmacros.h>
#ifdef G_PLATFORM_WIN32
#include <glib/gwin32.h>
#endif

#ifndef G_DISABLE_DEPRECATED
#include <glib/deprecated/gallocator.h>
#include
  <glib/deprecated/gcache.h>
#include <glib/deprecated/gcompletion.h>
#include <glib/deprecated/gmain.h>

```

```
#include <glib/deprecated/grel.h>
#include <glib/deprecated/gthread.h>
#endif /* G_DISABLE_DEPRECATED */
```

```
#include <glib/glib-autocleanups.h>
```

```
#undef __GLIB_H_INSIDE__
```

```
#endif /* __G_LIB_H__ */
```

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## 1.36 libtool 2.4.6

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\* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/HikariPoolMXBean.java  
\* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/HikariConfigMXBean.java

## 1.52 bzip2 1.0.8

# 1.53 commons-beanutils 1.9.4

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## 1.54 Idns 1.7.1

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\* Modified by Jelte Jansen to fit in ldns, and not clash with any

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\* Changes:

\* - Renamed (external) functions and constants to fit ldns style

\* - Removed \_End and \_Data functions

\* - Added ldns\_shaX(data, len, digest) convenience functions

\* - Removed prototypes of \_Transform functions and made those static

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/\* from openssh 4.3p2 compat/strncpy.c \*/

/\*

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/\* From openssl4.3p2 compat/inet\_aton.c \*/

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## 1.55 python-setuptools 41.2.0

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## 1.56 sbsigntool 1.3

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@item

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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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@enumerate a

@item

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@item

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@item

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@item

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@item

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@item

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@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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@subheading END OF TERMS AND CONDITIONS

@page

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@smallexample

@var{one line to give the library's name and an idea of what it does.}

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@end

smallexample

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

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@item

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@ifinfo

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@end iftex

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@page

@heading Appendix: How to Apply These Terms to Your New Programs

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@smallexample

@var{one line to give the program's name

and a brief idea of what it does.}

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@end smallexample

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@smallexample

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@end smallexample

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@example

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@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

@end example

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Version 2.1, February 1999

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

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## 1.58 jffi 1.0.1

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Version 3, 29 June 2007

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The

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## 1.59 libdaemon 0.14

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## 1.60 bzip2 1.0.7

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# 1.61 commons-codec 1.9

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# 1.62 commons-logging 1.1.1

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## 1.63 commons-daemon 1.1.0

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## 1.68 jetty-util 9.4.16.v20190411

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

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- \* java.sun.security.ssl

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.apache.tomcat:tomcat-jasper  
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org.apache.tomcat:tomcat-jsp-api  
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org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

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org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

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- 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
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
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- jsp\_2\_3.xsd
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## 1.78 lua 5.2.4

## 1.79 make 4.2

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Version 2, June 1991

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# Contributions to the urllib3 project

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\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

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\* georgemarshall <<https://github.com/georgemarshall>>

\* Bugfixes, Improvements and Test

coverage

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- \* IPv6 url support and test coverage
  
- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
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- \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <thomas@t-8ch.de>
- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield  
<<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support

- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
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- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
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- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.

- \* Adam Talsma <<https://github.com/a-tal>>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <<https://evanmeagher.net>>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto:jesse@jesseshapiro.net)>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <<http://dafoster.net/>>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto:nate.prewitt@gmail.com)>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <[sethmichaellarson@protonmail.com](mailto:sethmichaellarson@protonmail.com)>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <[alex.dias@smarkets.com](mailto:alex.dias@smarkets.com)>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <[moin18@gmail.com](mailto:moin18@gmail.com)>
- \* Lazily load idna package

- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings

\* Justin Bramley <<https://github.com/jbramleycl>>

\* Add ability to handle multiple Content-Encodings

\* Katsuhiko YOSHIDA <<https://github.com/kyoshidajp>>

\* Remove Authorization header

regardless of case when redirecting to cross-site

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

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

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not

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

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The modified work must itself be a software library.

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

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

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you

must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

@end enumerate

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

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

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

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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

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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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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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@item

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

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

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

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

of the Library  
will still fall under Section 6.)

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

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@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:

@enumerate a

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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.)

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@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.

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

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

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

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

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

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

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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.

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

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@center END OF TERMS AND CONDITIONS

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@center How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

@format

@t{

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

Copyright (C) <year> <name of author>

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}

@end format

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:

```
@format
```

```
@t{
```

```
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
```

```
}
```

```
@end format
```

That's all there is to it!

```
@c @bye
```

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Version 2.1, February 1999

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### Preamble

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

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

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

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

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

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

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

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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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Version 3, 29 June 2007

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## 1.94 xz 5.0.5

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=====

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## 1.95 libidn 1.35

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```
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```

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## 1.100 json-c 0.13

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## 1.103 go-cache 2.1.0

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)

in Reston, Virginia where he released several versions of the software.

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes

2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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=====

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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## 1.106 bouncycastle-fips 1.0.2

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## 1.107 python-requests 2.23.0

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# 1.108 urllib3 1.25.8

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\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <niphlod@gmail.com>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

\* Better unicode support for filepost using StringIO buffers

\* btoconnor <brian@btoconnor.net>

\* Non-multipart encoding for POST requests

\* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>

\* Code review, PEP8 compliance, benchmark fix

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\* Bugfixes, suggestions, Requests integration

\* georgemarshall <<https://github.com/georgemarshall>>

\* Bugfixes, Improvements and Test

coverage

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\* Python 3 support

\* brandon-rhodes <<http://rhodesmill.org/brandon>>

\* Design review, bugfixes, test coverage.

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\* Support for explicitly closing pooled connections

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\* Sune Kirkeby <mig@ibofobi.dk>

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- \* Correct six.moves conflict
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- \* Cory Benfield
- <<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
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- \* Stephen Holsapple <sholsapp@gmail.com>
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- \* Martin von Gagern <Martin.vGagern@gmx.net>
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- \* Nipunn Koorapati <nipunn1313@gmail.com>
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- \* Danilo @dbrgn <<https://dbrgn.ch/>>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
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- \* Josh Schneier <<https://github.com/jschneier>>

- \* HTTPHeaderDict and associated tests and docs
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- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <<https://grunseid.com>>
- \* source\_address support and tests (with <https://github.com/bui>)
  
- \* Ian Cordasco <[graffatcolmingov@gmail.com](mailto:graffatcolmingov@gmail.com)>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <[erik.tollerud@gmail.com](mailto:erik.tollerud@gmail.com)>
- \* Support for standard library io module.
  
- \* Krishna Prasad <[kprasad.iitd@gmail.com](mailto:kprasad.iitd@gmail.com)>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
<[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <[abacabadabacaba@gmail.com](mailto:abacabadabacaba@gmail.com)>
- \* Bugfixes
  
- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto:ttomecek@redhat.com)>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <<https://github.com/tlynn>>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <[ddriddle@illinois.edu](mailto:ddriddle@illinois.edu)>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <[magicalgirl@google.com](mailto:magicalgirl@google.com)>
- \* App Engine environment tests.
- \* Documentation re-write.

- \* John Krauss <<https://github.com/talos>>
  - \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <<https://github.com/Disassem>>
  - \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <[jlatherfold@hotmail.com](mailto:jlatherfold@hotmail.com)>
  - \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <<https://github.com/chripede>>
  - \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <<https://github.com/jmoldow>>
  - \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
  - \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
  - \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <<https://github.com/obi1kenobi>>
  - \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <<https://github.com/a-tal>>
  - \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <<https://evanmeagher.net>>
  - \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <[jayvdb@gmail.com](mailto:jayvdb@gmail.com)>
  - \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
  - \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
  - \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jess Shapiro <[jesse@jesseshapiro.net](mailto:jesse@jesseshapiro.net)>
  - \* Various character-encoding fixes/tweaks
  - \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <<http://dafoster.net/>>
  - \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>

- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
  - \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
  - \* Ensure timeouts are not booleans and greater than zero.
  - \* Fixed infinite loop in ``stream`` when amt=None.
  - \* Added length\_remaining to determine remaining data to be read.
  - \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
  - \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
  - \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
  - \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
  - \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
  - \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  - \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
  - \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
  - \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
  - \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
  - \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
  - \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
  - \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>

- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <https://github.com/jbramleycl>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- \* Remove Authorization header  
regardless of case when redirecting to cross-site
  
- \* James Meickle <https://permadeath.com/>
- \* Improve handling of Retry-After header
  
- \* Chris Jerdonek <chris.jerdonek@gmail.com>
- \* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

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## 1.109 jline 0.9.95-SNAPSHOT

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## 1.111 snake-yaml 1.26

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```
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## 1.116 properties 1.8.1

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# 1.118 openssl 1.0.2q

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## 1.120 mitchellh-mapstructure 1.3.0

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## 1.123 go-playground-validator 10.2.0

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## 1.124 gorilla 1.7.4

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Data model artifacts for Prometheus.

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

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#

# Please keep the list sorted.

#

# Use the following command to generate the list

#

# git shortlog -se | awk '{print \$2 " " \$3 " " \$4}'

#

# and do appropriate cleanups.

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compiler/cpp/src/generate/t\_ocaml\_generator.cc  
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compiler/cpp/src/generate/t\_rb\_generator.cc  
compiler/cpp/src/generate/t\_st\_generator.cc  
compiler/cpp/src/generate/t\_xsd\_generator.cc  
compiler/cpp/src/main.cc  
compiler/cpp/src/parse/t\_field.h  
compiler/cpp/src/parse/t\_program.h  
compiler/cpp/src/platform.h  
compiler/cpp/src/thrift.ll  
compiler/cpp/src/thrift.yy  
lib/csharp/src/Protocol/TBinaryProtocol.cs  
lib/csharp/src/Protocol/TField.cs  
lib/csharp/src/Protocol/TList.cs  
lib/csharp/src/Protocol/TMap.cs  
lib/csharp/src/Protocol/TMessage.cs

lib/csharp/src/Protocol/TMessageType.cs  
lib/csharp/src/Protocol/TProtocol.cs  
lib/csharp/src/Protocol/TProtocolException.cs  
lib/csharp/src/Protocol/TProtocolFactory.cs  
lib/csharp/src/Protocol/TProtocolUtil.cs  
lib/csharp/src/Protocol/TSet.cs  
lib/csharp/src/Protocol/TStruct.cs  
lib/csharp/src/Protocol/TType.cs  
lib/csharp/src/Server/TServer.cs  
lib/csharp/src/Server/TSimpleServer.cs  
lib/csharp/src/Server/TThreadPoolServer.cs  
lib/csharp/src/TApplicationException.cs  
lib/csharp/src/Thrift.csproj  
lib/csharp/src/Thrift.sln  
lib/csharp/src/TProcessor.cs  
lib/csharp/src/Transport/TServerSocket.cs  
lib/csharp/src/Transport/TServerTransport.cs  
lib/csharp/src/Transport/TSocket.cs  
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lib/csharp/src/Transport/TTransportFactory.cs  
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs  
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lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj  
lib/rb/lib/thrift.rb  
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test/OptionalRequiredTest.cpp  
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/\*

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Support for streaming Protocol Buffer messages for the Go language (golang).

[https://github.com/matttproud/golang\\_protobuf\\_extensions](https://github.com/matttproud/golang_protobuf_extensions)

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12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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## 1.136 openssh 8.3p1

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```
/**
 * Base constructor.
 * <p>
 * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
 * </p>
 * <p>
 * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
 * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * </p>
 *
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */
```

Found in path(s):

\* /bcpkix-fips-1-0-3-sources-1-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

# 1.142 gnutls 3.6.15

## 1.142.1 Available under license :

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Version 2.1, February 1999

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Any executables

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## 1.143 tcpdump 4.9.3

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## 1.146 jackson-jaxrs-base 2.9.9

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- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
- \* NTLM-authenticated HTTPSConnectionPool
- \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
  
- \* niphlod <niphlod@gmail.com>
- \* Client-verified SSL certificates for HTTPSConnectionPool
- \* Response gzip and deflate encoding support
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- \* Non-multipart encoding for POST requests
  
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- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
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- \* IPv6 HTTPS proxy bugfix
  
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- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
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- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <https://evanmeagher.net>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
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- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
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- \* Bugfix related to reusing connections in indeterminate states.
  
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- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
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- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported

- \* David Foster <<http://dafoster.net/>>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto:nate.prewitt@gmail.com)>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <[sethmichaellarson@protonmail.com](mailto:sethmichaellarson@protonmail.com)>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <[alex.dias@smarkets.com](mailto:alex.dias@smarkets.com)>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <[moin18@gmail.com](mailto:moin18@gmail.com)>
- \* Lazily load idna package
  
- \* Tom White <[s6yg1ez3@mail2tor.com](mailto:s6yg1ez3@mail2tor.com)>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <[tim.burke@gmail.com](mailto:tim.burke@gmail.com)>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <[tuukka.mustonen@gmail.com](mailto:tuukka.mustonen@gmail.com)>
- \* Add counter for status\_forcelist retries.
  
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- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <[wolfgang.richter@gmail.com](mailto:wolfgang.richter@gmail.com)>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <[github@mikeage.net](mailto:github@mikeage.net)>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <[mail@itziakos.gr](mailto:mail@itziakos.gr)>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.

- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <https://github.com/jbramleycl>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- \* Remove Authorization header  
regardless of case when redirecting to cross-site
  
- \* James Meickle <https://permadeath.com/>
- \* Improve handling of Retry-After header
  
- \* Chris Jerdonek <chris.jerdonek@gmail.com>
- \* Remove a spurious TypeError from the exception chain inside  
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- \* Added support for forwarding requests through HTTPS proxies.
  
- \* Benno Rice <benno@jeamland.net>
- \* Allow cadata parameter to be passed to underlying ``SSLContext.load\_verify\_locations()``.
  
- \* Keiichi Kobayashi <abok.1k@gmail.com>
- \* Rename VerifiedHTTPSConnection to HTTPSConnection

- \* Himanshu Garg <garg\_himanshu@outlook.com>
- \* DOC & LICENSE Update
  
- \* Hod Bin Noon <bin.noon.hod@gmail.com>
- \* Test improvements
  
- \* Chris Olufson <tycarac@gmail.com>
- \* Fix for connection not being released on HTTP redirect and response not preloaded
  
- \* [Bastiaan Bakker] <https://github.com/bastiaanb>
- \* Support for logging session keys  
via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.148 pkix-ssh 12.5.1

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\*

\* Optimised ANSI C code for the Rijndael cipher (now AES)

\*

\* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

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# 1.149 openssh 8.4p1

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.161 idna 2.10

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```
"""
```

```
A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.
```

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
```

```
    if python_version < (2,7):
```

```
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = { }
```

```
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
```

```
        'name': 'idna',
```

```
        'packages': ['idna'],
```

```
        'version': package_data['__version__'],
```

```

'description': 'Internationalized Domain Names in Applications (IDNA)',
'long_description': io.open("README.rst", encoding="UTF-8").read(),
'author': 'Kim Davies',
'author_email': 'kim@cynosure.com.au',
'license': 'BSD-like',
'url': 'https://github.com/kjd/idna',
'classifiers': [
    'Development Status :: 5 - Production/Stable',
    'Intended Audience :: Developers',
    'Intended Audience :: System Administrators',
    'License :: OSI Approved :: BSD License',
    'Operating System :: OS Independent',
    'Programming Language :: Python',
    'Programming Language :: Python :: 2',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    'Programming Language :: Python :: 3.7',
    'Programming Language :: Python :: 3.8',
    'Programming Language :: Python :: Implementation :: CPython',
    'Programming Language :: Python :: Implementation :: PyPy',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

```

```

setup(**arguments)

```

```

if __name__ == '__main__':
    main()

```

Found in path(s):

\* /kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py

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## 1.167 packaging 19.0

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# 1.168 nghttp2 1.42.0

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## 1.169 lua 5.4.2

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Lua is free software,  
more details.

Found in path(s):

\* /lua-lua-v5-4-2-0-g9d067ab-tar-gz/lua-lua-9d067ab/manual/manual.of

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```
#!/usr/bin/env lua5.3
```

```
-- special marks:  
-- \1 - paragraph (empty line)  
-- \4 - remove spaces around it  
-- \3 - ref (followed by label)
```

```
-----  
header = [[  
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">  
<html>  
  
<head>  
<title>Lua 5.4 Reference Manual</title>  
<meta http-equiv="Content-Type" content="text/html;charset=utf-8">  
<link rel="stylesheet" href="lua.css">  
<link rel="stylesheet" href="manual.css">  
</head>  
  
<body bgcolor="#FFFFFF">  
  
<hr>  
<h1>  
<a href="http://www.lua.org/home.html"></a>  
Lua 5.4 Reference Manual  
</h1>
```

by Roberto Ierusalimsky, Luiz Henrique de Figueiredo, Waldemar Celes

<p>

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</small>

<hr>

<!-- ===== -->

<p>

]]

footer

= "\n\n</body></html>\n\n"

local seefmt = '(see %s)'

if arg[1] == 'port' then

seefmt = '(ver %s)'

header = string.gsub(header, "by (-)\n",

"%1\n<p>Tradu&ccedil;&atilde;o S&eacute;rgio Queiroz de Medeiros", 1)

header = string.gsub(header, "Lua (%d+.%d+) Reference Manual",

"Manual de Refer&ecirc;ncia de Lua %1")

header = string.gsub(header, "All rights reserved",

"Todos os direitos reservados")

end

-----

local function compose (f,g)

assert(f and g)

return function (s) return g(f(s)) end

end

local function concat (f, g)

assert(f and g)

return function (s) return f(s) .. g(s) end

end

local Tag = { }

setmetatable(Tag, {

\_\_index = function (t, tag)

local v = function (n, att)

```

local e = ""
if type(att) == "table" then
  for k,v in pairs(att) do e = string.format("%s %s=\"%s\"", e, k, v) end
end
if n then
  return string.format("<%s%s>%s</%s>", tag, e, n, tag)
else
  return string.format("<%s%s>", tag, e)
end
end
t[tag] = v
return v
end
})

```

-----

```

local labels = {}

```

```

local function anchor (text, label, link, textlink)
if labels[label] then
  error("label " .. label .. " already defined")
end
labels[label] = {text = textlink, link = link}
return Tag.a(text, {name=link})
end

```

```

local function makeref (label)
assert(not string.find(label, "|"))
return string.format("\3%s\3", label)
end

```

```

local function ref (label)
local l = labels[label]
if not l then
  io.stderr:write("label ", label, " undefined\n")
  return "#####"
else
  return Tag.a(l.text, {href="#" .. l.link})
end
end

```

-----

```

local function nopara (t)
t = string.gsub(t, "\1", "\n\n")
t = string.gsub(t, "<p>%s*</p>", "")

```

```
    return t
end
```

```
local function fixpara (t)
  t = string.gsub(t, "\1", "\n</p>\n\n<p>\n")
  t = string.gsub(t, "<p>%s*</p>", "")
  return t
end
```

```
local function antipara (t)
  return "</p>\n" .. t .. "<p>"
end
```

```
Tag.pre = compose(Tag.pre, antipara)
Tag.ul = compose(Tag.ul, antipara)
```

```
-----
local Gfoots = 0
local footnotes = { }
```

```
local line = Tag.hr(nil)
```

```
local function dischargefoots ()
  if #footnotes == 0 then return "" end
  local fn = table.concat(footnotes)
  footnotes = { }
  return line .. Tag.h3"footnotes:" .. fn .. line
end
```

```
local Glists = 0
local listings = { }
```

```
local function dischargelist ()
  if #listings == 0 then return "" end
  local l = listings
  listings = { }
  return line .. table.concat(l, line..line) .. line
end
```

```
-----
local counters = {
  h1 = {val = 1},
  h2 = {father = "h1", val = 1},
  h3 = {father = "h2", val = 1},
  listing = {father = "h1", val = 1},
}
```

```
local
function inccounter (count)
counters[count].val = counters[count].val + 1
for c, v in pairs(counters) do
  if v.father == count then v.val = 1 end
end
end
```

```
local function getcounter (count)
local c = counters[count]
if c.father then
  return getcounter(c.father) .. "." .. c.val
else
  return c.val .. ""
end
end
```

-----

```
local function fixed (x)
return function () return x end
end
```

```
local function id (x) return x end
```

```
local function prepos (x, y)
assert(x and y)
return function (s) return string.format("%s%s%s", x, s, y) end
end
```

```
local rw = Tag.b
```

```
local function LuaName (name)
return Tag.code(name)
end
```

```
local function getparam (s)
local i, e = string.find(s, "[^%s@|]+")
if not i then return nil, s
else return string.sub(s, i, e - 1), string.sub(s, e + 1)
end
```

end

```
local function gettitle (h)
  local title, p = assert(string.match(h, "<title>(.-)</title>()"))
  return title, string.sub(h,
  p)
end
```

```
local function getparamtitle (what, h, nonum)
  local label, title, c, count
  label, h = getparam(h)
  title, h = gettitle(h)
  if not nonum then
    count = getcounter(what)
    inccounter(what)
    c = string.format("%s &ndash; ", count)
  else
    c = ""
  end
  label = label or count
  if label then
    title = anchor(title, label, count, "&sect;.."..count)
  end
  title = string.format("%s%s", c, title)
  return title, h
end
```

```
local function section (what, nonum)
  return function (h)
    local title
    title, h = getparamtitle(what, h, nonum)
    local fn = what == "h1" and dischargefoots() or ""
    h = fixpara(Tag.p(h))
    return "</p>\n" .. Tag[what](title) .. h .. fn ..
      dischargelist() .. "<p>"
  end
end
```

```
local function verbatim (s)
  s = nopara(s)
  s = string.gsub(s, "\\n", "\\n ")
  s = string.gsub(s, "\\n%s*$", "\\n")
  return Tag.pre(s)
end
```

```
local function verb (s)
```

```
    return Tag.code(s)
```

```
end
```

```
local function lua2link
```

```
(e)
```

```
    return string.find(e, "luaL?_") and e or "pdf-".e
```

```
end
```

```
local verbfixed = verb
```

```
local Tex = {
```

```
    ANSI = function (func)
```

```
        return "ISO&nbsp;C function " .. Tag.code(func)
```

```
    end,
```

```
    At = fixed"@",
```

```
    B = Tag.b,
```

```
    bigskip = fixed"",
```

```
    bignum = id,
```

```
    C = fixed"",
```

```
    Ci = prepos("<!-- ", " -->"),
```

```
    CId = function (func)
```

```
        return "C&nbsp;function " .. Tag.code(func)
```

```
    end,
```

```
    chapter = section"h1",
```

```
    Char = compose(verbfixed, prepos("", "")),
```

```
    Cdots = fixed"&nbsp;&nbsp;&nbsp;:",
```

```
    Close = fixed"}",
```

```
    col = Tag.td,
```

```
    defid = function (name)
```

```
        local l = lua2link(name)
```

```
        local c = Tag.code(name)
```

```
        return anchor(c, l, l, c)
```

```
    end,
```

```
    def = Tag.em,
```

```
    description = compose(nopara, Tag.ul),
```

```
    Em = fixed("\4" .. "&nbsp;" .. "\4"),
```

```
    emph = Tag.em,
```

```
    emphx = Tag.em, -- emphasis plus index (if there was an index)
```

```
    En = fixed("&nbsp;"),
```

```
    format = fixed"",
```

```
    ["false"] = fixed(Tag.b"false"),
```

```
    id = Tag.code,
```

```
    idx = Tag.code,
```

```

index = fixed"",
Lidx = fixed"", -- Tag.code,
ldots
= fixed"...",
x = id,
itemize = compose(nopara, Tag.ul),
leq = fixed"&le;",
Lid = function (s)
    return makeref(lua2link(s))
    end,
M = Tag.em,
N = function (s) return (string.gsub(s, " ", "&nbsp;")) end,
NE = id, -- tag"foreignphrase",
num = id,
["nil"] = fixed(Tag.b"nil"),
fail = fixed(Tag.b"fail"),
Open = fixed"{",
part = section("h1", true),
Pat = compose(verbfixed, prepos("", "")),
preface = section("h1", true),
psect = section("h2", true),
Q = prepos("", ""),
refchp = makeref,
refcode = makeref,
refsec = makeref,

pi = fixed"&pi;",
rep = Tag.em, -- compose(prepos("&lt;", "&gt;"), Tag.em),
Rw = rw,
rw = rw,
sb = Tag.sub,
sp = Tag.sup,
St = compose(verbfixed, prepos("", "")),
sect1 = section"h1",
sect2 = section"h2",
sect3 = section"h3",
sect4 = section("h4", true),
simplesect = id,
Tab2 = function (s) return Tag.table(s, {border=1}) end,
row = Tag.tr,
title = Tag.title,
todo = Tag.todo,
["true"] = fixed(Tag.b"true"),
T = verb,

item = function (s)

```

```

local t, p = string.match(s, "^(^[^\n]+)|()")
  if t then
    s = string.sub(s, p)
    s = Tag.b(t..": ") .. s
  end
  return Tag.li(fixpara(s))
end,

verbatim = verbatim,

manual = id,

-- for the manual

link =function (s)
  local l, t = getparam(s)
  assert(l)
  return string.format("%s (%s)", t, makeref(l))
end,

see = function (s) return string.format(seefmt, makeref(s)) end,
See = makeref,
seeC = function (s)
  return string.format(seefmt, makeref(s))
end,

seeF = function (s)
  return string.format(seefmt, makeref(lua2link(s)))
end,

APIEntry = function (e)
  local h, name
  h, e = string.match(e, "^%s*(.-%s*|(.*)$")
  name = string.match(h, "(luaL?_[%w_]+)%? +%(") or
    string.match(h, "luaL?_[%w_]+")
  local a = anchor(Tag.code(name), name, name, Tag.code(name))
  local apiicmd, ne = string.match(e, "^(.-</span>)(.*)")
  --io.stderr:write(e)
  if not apiicmd then
    return antipara(Tag.hr() .. Tag.h3(a))
  .. Tag.pre(h) .. e
  else
    return antipara(Tag.hr() .. Tag.h3(a)) .. apiicmd .. Tag.pre(h) .. ne
  end
end,

LibEntry = function (e)

```

```

local h, name
h, e = string.match(e, "^(-)|(.*)$")
name = string.gsub(h, "(.+)", "")
local l = lua2link(name)
local a = anchor(Tag.code(h), l, l, Tag.code(name))
return Tag.hr() .. Tag.h3(a) .. e
end,

Produc = compose(nopara, Tag.pre),
producname = prepos("\t", " ::= "),
Or = fixed" | ",
VerBar = fixed"&#124;", -- vertical bar
OrNL = fixed" | \4",
bnfNter = prepos("", ""),
bnfopt = prepos("[", "]"),
bnfrep = prepos("{", "}"),
bnfter = compose(Tag.b, prepos("&lsquo;", "&rsquo;")),
producbody = function (s)
    s = string.gsub(s, "%s+", " ")
    s = string.gsub(s, "\4", "\n\t")
    return s
end,

apii = function (s)
    local pop, push, err = string.match(s, "^(-),(-),(.*)$")
    if pop ~= "?" and string.find(pop, "%W") then
        pop = "(" .. pop .. ")"
    end
    if push ~= "?"
and string.find(push, "%W") then
        push = "(" .. push .. ")"
    end
    err = (err == "-" and "&ndash;" or Tag.em(err))
    return Tag.span(
        string.format("[-%s, +%s, %s]", pop, push, err),
        {class="apii"}
    )
end,
}

local others = prepos("?? ", " ??")

local function trata (t)
t = string.gsub(t, "@(%w+)(%b{ })", function (w, f)
    f = trata(string.sub(f, 2, -2))
    if type(Tex[w]) ~= "function" then
        io.stderr:write(w .. "\n")
    end
    return others(f)
end)
end

```

```
    else
    return Tex[w](f, w)
    end
end)
return t
end
```

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

-- read whole book
```

```
t = io.read"*a"
```

```
t = string.gsub(t, "[<>&\128-\255]",
```

```
{["<"] = "&lt;";
```

```
[">"] = "&gt;";
```

```
["&"] = "&amp;";
```

```
["\170"] = "&ordf;";
```

```
["\186"] = "&ordm;";
```

```
["\192"] = "&Agrave;";
```

```
["\193"] = "&Aacute;";
```

```
["\194"] = "&Acirc;";
```

```
["\195"] = "&Atilde;";
```

```
["\199"] = "&Ccedil;";
```

```
["\201"] = "&Eacute;";
```

```
["\202"] = "&Ecirc;";
```

```
["\205"] = "&Iacute;";
```

```
["\211"] = "&Oacute;";
```

```
["\212"] = "&Ocirc;";
```

```
["\218"] = "&Uacute;";
```

```
["\224"] = "&agrave;";
```

```
["\225"] = "&aacute;";
```

```
["\226"] = "&acirc;";
```

```
["\227"] = "&atilde;";
```

```
["\231"] = "&ccedil;";
```

```
["\233"] = "&eacute;";
```

```
["\234"] = "&ecirc;";
```

```
["\237"] = "&iacute;";
```

```
["\243"] = "&oacute;";
```

```
["\244"] = "&ocirc;";
```

```
["\245"] = "&otilde;";
```

```
["\250"] = "&uacute;";
```

```
["\252"] = "&uuml;";
```

```
})
```

```
t = string.gsub(t, "\n\n+", "\1")
```

```

-- complete macros with no arguments
t = string.gsub(t, "(@%w+)([^\{ %w])", "%1{ }%2")

t = trata(t)

-- correct references
t = string.gsub(t, "\3(-)\3", ref)

-- remove extra space (??)
t = string.gsub(t, "%s*\4%s*", "")

t = nopara(t)

-- HTML 3.2 does not need </p> (but complains when it is in wrong places :)
t = string.gsub(t, "</p>", "")

io.write(header, t, footer)

```

Found in path(s):

```

*
/lua-lua-v5-4-2-0-g9d067ab-tar-gz/lua-lua-9d067ab/manual/2html
No license file was found, but licenses were detected in source scan.

```

```

/*****

```

```

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*****/

```

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## 1.170 viper 1.6.3

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## 1.171 jackson-xc 2.9.8

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A

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*/
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph:                                ; preds = %entry
br label %while.body

while.body:                                       ; preds = %exit.2, %while.body.lr.ph

```

```

%lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [
  i32 1, label %sw.bb.i
  i32 2, label %sw.bb3.i
]

```

```

sw.bb.i:                                ; preds = %while.body
unreachable

```

```

sw.bb3.i:                                ; preds = %while.body
unreachable

```

```

exit:                                     ; preds = %while.body
switch i32 undef, label %exit.2 [
  i32 1, label %sw.bb.i17
  i32 2, label %sw.bb3.i20
]

```

```

sw.bb.i17:                               ; preds = %.exit
%0 = bitcast %struct.0* %lsr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

```

```

sw.bb3.i20:                              ; preds = %exit
%2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

```

```

exit.2:                                   ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
br label %while.body

```

```

while.end:                               ; preds = %entry
ret void
}

```

```

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

```

```

declare fp128 @llvm.fabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

```

```

define fp128 @TestSelect(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestSelect:
; CHECK:    # %bb.0:
; CHECK-NEXT:  pushq %rbx
; CHECK-NEXT:  .cfi_def_cfa_offset 16
; CHECK-NEXT:  subq $32, %rsp
; CHECK-NEXT:  .cfi_def_cfa_offset 48
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movaps %xmm1, {[[-0-9]+]}(%r{[sb]}) # 16-byte Spill
; CHECK-NEXT:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  callq __gttf2
; CHECK-NEXT:  movl %eax, %ebx
; CHECK-NEXT:  movaps (%rsp), %xmm0 # 16-byte Reload
; CHECK-NEXT:  movaps {[[-0-9]+]}(%r{[sb]})p),
    %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  jg .LBB0_2
; CHECK-NEXT:  # %bb.1:
; CHECK-NEXT:  xorps %xmm0, %xmm0
; CHECK-NEXT:  .LBB0_2:
; CHECK-NEXT:  addq $32, %rsp
; CHECK-NEXT:  .cfi_def_cfa_offset 16
; CHECK-NEXT:  popq %rbx
; CHECK-NEXT:  .cfi_def_cfa_offset 8
; CHECK-NEXT:  retq
%cmp = fcmp ogt fp128 %a, %b
%sub = fsub fp128 %a, %b
%res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
ret fp128 %res
}

```

```

define fp128 @TestFabs(fp128 %a) {
; CHECK-LABEL: TestFabs:
; CHECK:    # %bb.0:
; CHECK-NEXT:  andps {[.*]}(%rip), %xmm0
; CHECK-NEXT:  retq
%res = call fp128 @llvm.fabs.f128(fp128 %a)
ret fp128 %res
}

```

```

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestCopysign:
; CHECK:    # %bb.0:
; CHECK-NEXT:  andps {[.*]}(%rip), %xmm1
; CHECK-NEXT:  andps {[.*]}(%rip), %xmm0
; CHECK-NEXT:  orps %xmm1, %xmm0
; CHECK-NEXT:  retq

```

```

%res = call
fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
; CHECK-LABEL: TestFneg:
; CHECK:      # %bb.0:
; CHECK-NEXT:  pushq %rax
; CHECK-NEXT:  .cfi_def_cfa_offset 16
; CHECK-NEXT:  movaps %xmm0, %xmm1
; CHECK-NEXT:  callq __multf3
; CHECK-NEXT:  xorps {{.*}}(%rip), %xmm0
; CHECK-NEXT:  popq %rax
; CHECK-NEXT:  .cfi_def_cfa_offset 8
; CHECK-NEXT:  retq
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000008000000000000000, %mul
ret fp128 %res
}

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## 1.186 smartmontools 7.2

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# 1.188 httpcomponents-core 4.4.13

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# 1.189 commons-lang3 2.6

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* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
*
 /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java
* /commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java
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*/
```

```
/*  
* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $  
*/
```

```
/*  
* @author Jacek Ambroziak  
* @author  
* Santiago Pericas-Geertsen  
* @author Morten Jorgensen  
* @author G. Todd Miller  
*/
```

```
package org.apache.xalan.xsltc.compiler;
```

```
import java.util.Stack;  
import java.util.Vector;  
import java.io.StringReader;  
import java_cup.runtime.*;
```

```
import org.apache.xml.dtm.DTM;  
import org.apache.xalan.xsltc.DOM;  
import org.apache.xml.dtm.Axis;
```

```

import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

parser code {
    /**
     * Used by function calls with no args.
     */
    static public final Vector EmptyArgs = new Vector(0);

    /**
     * Reference to non-existing variable.
     */
    static public final VariableRef DummyVarRef = null;

    /**
     * Reference to the Parser class.
     */
    private Parser _parser;
    private XSLTC _xsltc;

    /**
     * String representation of the expression being parsed.
     */
    private String _expression;

    /**
     * Line number where this expression/pattern
was declared.
     */
    private int _lineNumber = 0;

    /**
     * Reference to the symbol table.
     */
    public SymbolTable _symbolTable;

    public XPathParser(Parser parser) {
        _parser = parser;
        _xsltc = parser.getXSLTC();
        _symbolTable = parser.getSymbolTable();
    }

    public int getLineNumber() {
        return _lineNumber;
    }

    public QName getQNameIgnoreDefaultNs(String name) {
        return _parser.getQNameIgnoreDefaultNs(name);
    }

```

```

}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {
    _xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This
method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "{uri}:*" and "{uri}:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
int nodeType;

if (test == null) { // "*"
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

    return new StepPattern(axis, nodeType, predicates);
}
else if (test instanceof Integer) {
nodeType = ((Integer) test).intValue();

return new StepPattern(axis, nodeType, predicates);
}
else {
QName name = (QName)test;
boolean setPriority = false;

```

```

    if (axis == Axis.NAMESPACE) {
nodeType = (name.toString().equals("*")) ? -1
: _xsltc.registerNamespacePrefix(name);
    }
    else {
final String uri = name.getNamespace();
final String local = name.getLocalPart();
final QName namespace_uri =
    _parser.getQNameIgnoreDefaultNs("namespace-uri");

// Expand {uri}:* to *[namespace-uri = 'uri'] - same for @*
if (uri != null && (local.equals("*") || local.equals("@*"))) {
    if (predicates == null) {
predicates = new Vector(2);
    }

// Priority is set by hand if no other predicates exist
setPriority = (predicates.size() == 0);

    predicates.add(
new Predicate(
    new EqualityExpr(Operators.EQ,
new NamespaceUriCall(namespace_uri),
new LiteralExpr(uri))););
}

if (local.equals("*"))
{
    nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
    nodeType = NodeTest.ATTRIBUTE;
}
else {
    nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
}
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

// Set priority for case prefix:* and prefix:@* (no predicates)
if (setPriority) {
result.setPriority(-0.25);
}

```

```

    return result;
}
}

public int findNodeType(int axis, Object test) {
if (test == null) { // *
    return (axis == Axis.ATTRIBUTE) ?
NodeTest.ATTRIBUTE :
(axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
    }
    else if (test instanceof Integer) {
        return ((Integer)test).intValue();
    }
    else {
        QName name = (QName)test;

        if (axis == Axis.NAMESPACE) {
return (name.toString().equals("*"))
? -1
: _xsltc.registerNamespacePrefix(name);
        }

        if (name.getNamespace() == null) {
final String local = name.getLocalPart();

if (local.equals("")) {
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
: NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
    return NodeTest.ATTRIBUTE;
}
}

return (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name)
: _xsltc.registerElement(name);
    }
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external Set to <tt>true</tt> if this expression is
 * compiled in a separate module.

```

```

*

*/
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}

/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR,
        error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
        _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {

```

```

    return new ParentLocationPath(step, (Step) rlp);
}
else if (rlp instanceof ParentLocationPath) {
    final ParentLocationPath plp = (ParentLocationPath) rlp;
    final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
    return new ParentLocationPath(newrlp, plp.getStep());
}
else {
    addError(new ErrorMsg(ErrorMsg.INTERNAL_ERR, "XPathParser.insertStep"));
    return rlp;
}
}
}

```

```

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant
result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
axis == Axis.NAMESPACE || axis == Axis.DESCEADANT);
}
:}

```

```

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QNAME;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

```

non terminal SyntaxTreeNode TopLevel;

```

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non
terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;

```

non terminal Expression VariableReference, FunctionCall;  
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;  
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;  
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;  
non terminal Pattern Pattern;  
non terminal Pattern LocationPathPattern;  
non terminal StepPattern ProcessingInstructionPattern;  
non terminal RelativePathPattern RelativePathPattern;  
non terminal StepPattern StepPattern;  
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;  
non terminal QName QName, FunctionName, VariableName;  
non terminal Integer AxisName, AxisSpecifier;  
non terminal  
Integer ChildOrAttributeAxisSpecifier;

precedence left VBAR;  
precedence left OR;  
precedence left AND;  
precedence nonassoc EQ, NE;  
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;  
precedence left DIV, MOD, MULT;  
precedence left DOLLAR;  
precedence left ATSIGN;  
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern

{: RESULT = pattern; :}

| EXPRESSION Expr:expr

{: RESULT = expr; :};

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

Pattern ::= LocationPathPattern:lpp

{: RESULT = lpp; :}

| LocationPathPattern:lpp VBAR Pattern:p

{: RESULT = new AlternativePattern(lpp, p); :};

```

LocationPathPattern ::= SLASH
    { : RESULT = new AbsolutePathPattern(null); : }

    | SLASH RelativePathPattern:rpp
    { : RESULT = new AbsolutePathPattern(rpp); : }

    | IdKeyPattern:ikp

    { : RESULT = ikp; : }

    | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
    { : RESULT = new ParentPattern(ikp, rpp); : }

    | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(ikp, rpp); : }

    | DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(rpp); : }

    | RelativePathPattern:rpp
    { : RESULT = rpp; : };

IdKeyPattern ::= ID LPAREN Literal:l RPAREN
    { : RESULT = new IdPattern(l);
      parser.setHasIdCall(true);
      : }

    | KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
    { : RESULT = new KeyPattern(l1, l2); : };

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
    { : RESULT = new ProcessingInstructionPattern(l); : };

RelativePathPattern ::= StepPattern:sp
    { : RESULT = sp; : }

    | StepPattern:sp SLASH RelativePathPattern:rpp
    { : RESULT
= new ParentPattern(sp, rpp); : }

    | StepPattern:sp DSLASH RelativePathPattern:rpp
    { : RESULT = new AncestorPattern(sp, rpp); : };

StepPattern ::= NodeTestPattern:nt
    { :
RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
: }

```

```

    | NodeTestPattern:nt Predicates:pp
    { :
RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
    :}

    | ProcessingInstructionPattern:pip
    { : RESULT = pip; :}

| ProcessingInstructionPattern:pip Predicates:pp
    { : RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); :}

    | ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
    { :
RESULT = parser.createStepPattern(axis.intValue(), nt, null);
    :}

| ChildOrAttributeAxisSpecifier:axis
NodeTestPattern:nt Predicates:pp
    { :
RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
    :}

    | ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
    { :
RESULT = pip; // TODO: report error if axis is attribute
    :}

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip
Predicates:pp
    { :
// TODO: report error if axis is attribute
RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp);
    :};

NodeTestPattern ::= NameTestPattern:nt
    { : RESULT = nt; :}

| NODE
    { : RESULT = new Integer(NodeTest.ANODE); :}

| TEXT
    { : RESULT = new Integer(NodeTest.TEXT); :}

| COMMENT
    { : RESULT = new Integer(NodeTest.COMMENT); :}

| PI

```

```

    { : RESULT = new Integer(NodeTest.PI); : };

NameTestPattern ::= STAR
    { : RESULT = null; : }

    | QName:qn
    { : RESULT = qn; : };

ChildOrAttributeAxisSpecifier ::= ATSIGN

    { : RESULT = new Integer(Axis.ATTRIBUTE); : }

    | CHILD DCOLON
    { : RESULT = new Integer(Axis.CHILD); : }

    | ATTRIBUTE DCOLON
    { : RESULT = new Integer(Axis.ATTRIBUTE); : };

Predicates ::= Predicate:p
    { :
    Vector temp = new Vector();
    temp.addElement(p);
    RESULT = temp;
    : }

    | Predicate:p Predicates:pp
    { : pp.insertElementAt(p, 0); RESULT = pp; : };

Predicate ::= LBRACK Expr:e RBRACK
    { :
    RESULT = new Predicate(e);
    : };

/* ----- Expressions ----- */

Expr ::= OrExpr:ex
    { : RESULT = ex; : };

OrExpr ::= AndExpr:ae
    { : RESULT = ae; : }

    | OrExpr:oe OR AndExpr:ae
    { : RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae); : };

AndExpr ::= EqualityExpr:e
    { : RESULT = e; : }

    | AndExpr:ae AND EqualityExpr:ee

```

```
{: RESULT = new LogicalExpr(LogicalExpr.AND,  
ae, ee); :};
```

```
EqualityExpr ::= RelationalExpr:re
```

```
{: RESULT = re; :}
```

```
| EqualityExpr:ee EQ RelationalExpr:re
```

```
{: RESULT = new EqualityExpr(Operators.EQ, ee, re); :}
```

```
| EqualityExpr:ee NE RelationalExpr:re
```

```
{: RESULT = new EqualityExpr(Operators.NE, ee, re); :};
```

```
RelationalExpr ::= AdditiveExpr:ae
```

```
{: RESULT = ae; :}
```

```
| RelationalExpr:re LT AdditiveExpr:ae
```

```
{: RESULT = new RelationalExpr(Operators.LT, re, ae); :}
```

```
| RelationalExpr:re GT AdditiveExpr:ae
```

```
{: RESULT = new RelationalExpr(Operators.GT, re, ae); :}
```

```
| RelationalExpr:re LE AdditiveExpr:ae
```

```
{: RESULT = new RelationalExpr(Operators.LE, re, ae); :}
```

```
| RelationalExpr:re GE AdditiveExpr:ae
```

```
{: RESULT = new RelationalExpr(Operators.GE, re, ae); :};
```

```
AdditiveExpr ::= MultiplicativeExpr:me
```

```
{: RESULT = me; :}
```

```
| AdditiveExpr:ae PLUS MultiplicativeExpr:me
```

```
{: RESULT = new BinOpExpr(BinOpExpr.PLUS,  
ae, me); :}
```

```
| AdditiveExpr:ae MINUS MultiplicativeExpr:me
```

```
{: RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); :};
```

```
MultiplicativeExpr ::= UnaryExpr:ue
```

```
{: RESULT = ue; :}
```

```
| MultiplicativeExpr:me MULT UnaryExpr:ue
```

```
{: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}
```

```
| MultiplicativeExpr:me DIV UnaryExpr:ue
```

```
{: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}
```

```
| MultiplicativeExpr:me MOD UnaryExpr:ue
```

```
{: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};
```

UnaryExpr ::= UnionExpr:ue

{: RESULT = ue; :}

| MINUS UnaryExpr:ue

{: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe

{: RESULT = pe; :}

| PathExpr:pe VBAR UnionExpr:rest

{: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp

{: RESULT = lp; :}

| FilterExpr:fexp

{: RESULT = fexp; :}

| FilterExpr:fexp

SLASH RelativeLocationPath:rlp

{: RESULT = new FilterParentPath(fexp, rlp); :}

| FilterExpr:fexp DSLASH RelativeLocationPath:rlp

{:

//

// Expand '/' into '/descendant-or-self::node()/' or

// into '/descendant-or-self::\*/'

//

int nodeType = DOM.NO\_TYPE;

if (rlp instanceof Step &&

parser.isElementAxis(((Step) rlp).getAxis()))

{

nodeType = DTM.ELEMENT\_NODE;

}

final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);

FilterParentPath fpp = new FilterParentPath(fexp, step);

fpp = new FilterParentPath(fpp, rlp);

if (fexp instanceof KeyCall == false) {

fpp.setDescendantAxis();

}

RESULT = fpp;

:};

LocationPath ::= RelativeLocationPath:rlp

{: RESULT = rlp; :}

| AbsoluteLocationPath:alp

```
{: RESULT = alp; :};
```

```
RelativeLocationPath ::= Step:step
```

```
{: RESULT  
= step; :}
```

```
| RelativeLocationPath:rlp SLASH Step:step  
{:  
if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {  
    RESULT = step;    // Remove '.' from the middle  
}  
else if (((Step) step).isAbbreviatedDot()) {  
    RESULT = rlp;    // Remove '.' from the end  
}  
else {  
    RESULT =  
        new ParentLocationPath((RelativeLocationPath) rlp, step);  
}  
:}
```

```
| AbbreviatedRelativeLocationPath:arlp  
{: RESULT = arlp; :};
```

```
AbsoluteLocationPath ::= SLASH
```

```
{: RESULT = new AbsoluteLocationPath(); :}
```

```
| SLASH RelativeLocationPath:rlp  
{: RESULT = new AbsoluteLocationPath(rlp); :}
```

```
| AbbreviatedAbsoluteLocationPath:aalp  
{: RESULT = aalp; :};
```

```
AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
```

```
{:  
    final Step right = (Step)step;  
    final  
int axis = right.getAxis();  
    final int type = right.getNodeType();  
    final Vector predicates = right.getPredicates();  
  
    if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {  
        // Compress '//child:E' into 'descendant::E' - if possible  
        if (predicates == null) {  
            right.setAxis(Axis.DESCENDANT);  
            if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {  
                RESULT = right;  
            }  
        }  
        else {
```

```

        // Expand 'rlp//child::E' into 'rlp/descendant::E'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        RESULT = new ParentLocationPath(left, right);
    }
}
else {
    // Expand '//step' -> 'descendant-or-self::*step'
    if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {

        Step left = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);
        RESULT = new ParentLocationPath(left, right);
    }
    else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*step'
        RelativeLocationPath left = (RelativeLocationPath)rlp;
        Step mid = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
        RESULT = new ParentLocationPath(left, ppl);
    }
}
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
DTM.ELEMENT_NODE, null);

    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
}
};

```

AbbreviatedAbsolutePath ::= DSLASH RelativeLocationPath:rlp

```

{:
//
// Expand '/' into '/descendant-or-self::node()' or
// into /descendant-or-self::*

```

```

//
int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
RESULT =
new AbsoluteLocationPath(parser.insertStep(step,
    (RelativeLocationPath) rlp));
:};

```

Step ::= NodeTest:ntest

```

{:
    if (ntest instanceof Step) {
        RESULT = (Step)ntest;
    }
    else {
RESULT = new Step(Axis.CHILD,
    parser.findNodeType(Axis.CHILD, ntest),
    null);
    }
:}

```

| NodeTest:ntest Predicates:pp

```

{:
    if (ntest instanceof Step) {
        Step step = (Step)ntest;
        step.addPredicates(pp);
        RESULT = (Step)ntest;
    }
    else {
        RESULT = new Step(Axis.CHILD,
            parser.findNodeType(Axis.CHILD, ntest), pp);
    }
:}

```

| AxisSpecifier:axis NodeTest:ntest Predicates:pp

```

{: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
    pp);
:}

```

| AxisSpecifier:axis NodeTest:ntest

```

{: RESULT = new Step(axis.intValue(),
    parser.findNodeType(axis.intValue(), ntest),
    null);
:}

```

:]

| AbbreviatedStep:abbrev  
{: RESULT = abbrev; :};

AxisSpecifier ::= AxisName:an DCOLON  
{: RESULT = an; :}

| ATSIGN  
{: RESULT = new Integer(Axis.ATTRIBUTE); :};

AxisName ::= ANCESTOR  
{: RESULT = new Integer(Axis.ANCESTOR); :}

| ANCESTORORSELF  
{: RESULT = new Integer(Axis.ANCESTORORSELF); :}

| ATTRIBUTE  
{: RESULT = new Integer(Axis.ATTRIBUTE); :}

| CHILD  
{: RESULT = new Integer(Axis.CHILD); :}

| DESCENDANT  
{: RESULT = new Integer(Axis.DESCENDANT); :}

| DESCENDANTORSELF  
{: RESULT = new Integer(Axis.DESCENDANTORSELF); :}

| FOLLOWING  
{: RESULT = new  
Integer(Axis.FOLLOWING); :}

| FOLLOWINGSIBLING  
{: RESULT = new Integer(Axis.FOLLOWINGSIBLING); :}

| NAMESPACE  
{: RESULT = new Integer(Axis.NAMESPACE); :}

| PARENT  
{: RESULT = new Integer(Axis.PARENT); :}

| PRECEDING  
{: RESULT = new Integer(Axis.PRECEDING); :}

| PRECEDINGSIBLING  
{: RESULT = new Integer(Axis.PRECEDINGSIBLING); :}

```

| SELF
{: RESULT = new Integer(Axis.SELF); :};

AbbreviatedStep ::= DOT
{: RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); :}

| DDOT
{: RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); :};

FilterExpr ::= PrimaryExpr:primary
{: RESULT = primary; :}

| PrimaryExpr:primary Predicates:pp
{: RESULT = new FilterExpr(primary, pp); :};

PrimaryExpr ::= VariableReference:vr
{: RESULT = vr; :}

| LPAREN Expr:ex RPAREN
{: RESULT = ex; :}

| Literal:string
{:
/*
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');

if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
: new LiteralExpr(string, namespace);
:}

| INT:num
{:
long value = num.longValue();
if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
RESULT = new RealExpr(value);
}
else {

```

```

    if (num.doubleValue() == -0)
        RESULT = new RealExpr(num.doubleValue());
    else if (num.intValue() == 0)
        RESULT = new IntExpr(num.intValue());

    else if (num.doubleValue() == 0.0)
        RESULT = new RealExpr(num.doubleValue());
    else
        RESULT = new IntExpr(num.intValue());
}
:}

```

```

| REAL:num
{: RESULT = new RealExpr(num.doubleValue()); :}

```

```

| FunctionCall:fc
{: RESULT = fc; :};

```

VariableReference ::= DOLLAR VariableName:varName

```

{:
    // An empty QName prefix for a variable or parameter reference
    // should map to the null namespace and not the default URI.
    SyntaxTreeNode node = parser.lookupName(varName);

    if (node != null) {
        if (node instanceof Variable) {
            RESULT = new VariableRef((Variable)node);
        }
        else if (node instanceof Param) {
            RESULT = new ParameterRef((Param)node);
        }
        else {
            RESULT = new UnresolvedRef(varName);
        }
    }

    if (node == null) {
        RESULT = new UnresolvedRef(varName);
    }
:};

```

FunctionCall ::= FunctionName:fname LPAREN RPAREN

```

{:
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {

```

```

    RESULT = new NumberCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
    RESULT = new BooleanExpr(true);
}
else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {

RESULT = new BooleanExpr(false);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
    RESULT = new NameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, parser.EmptyArgs);
}
else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
    RESULT = new PositionCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
    RESULT = new LastCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname);
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
:}

```

| FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN

```

{:
if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
    RESULT = new ConcatCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {

```

```

    RESULT = new NumberCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
parser.setMultiDocument(true);
    RESULT = new DocumentCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
    RESULT = new StringCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
    RESULT = new BooleanCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {

RESULT = new NameCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, arg1);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
{
    RESULT = new CeilingCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, arg1);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, arg1);
}
}

```

```

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname))
{
    RESULT = new ElementAvailableCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}
else if (parser.getQName(Constants.TRANSLET_URI, "xslt", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}
// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
parser.setCallsNodeset(true); // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}
else {
    RESULT = new FunctionCall(fname, argl);
}
};

```

NonemptyArgumentList

::= Argument:arg

```

{:
    Vector temp = new Vector();
    temp.addElement(arg);
    RESULT = temp;
:}

```

```

| Argument:arg COMMA NonemptyArgumentList:argl
{: argl.insertElementAt(arg, 0); RESULT = argl; :};

```

FunctionName ::= QName:fname

```

{:

```

```

    RESULT = fname;
};

VariableName ::= QName:vname
    {
    RESULT = vname;
};

Argument ::= Expr:ex
    { RESULT = ex; };

NodeTest ::= NameTest:nt
    { RESULT = nt; ;}

    | NODE
    { RESULT = new Integer(NodeTest.ANODE); ;}

    | TEXT
    { RESULT = new Integer(NodeTest.TEXT); ;}

    | COMMENT
    { RESULT = new Integer(NodeTest.COMMENT); ;}

    | PIPARAM LPAREN Literal:l RPAREN
    {
    QName name = parser.getQNameIgnoreDefaultNs("name");
    Expression exp = new EqualityExpr(Operators.EQ,
        new NameCall(name),
        new LiteralExpr(l));
    Vector predicates = new Vector();
    predicates.addElement(new Predicate(exp));
    RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
    ;}

    | PI
    { RESULT = new Integer(NodeTest.PI); ;};

NameTest ::= STAR
    { RESULT = null; ;}

    | QName:qn
    { RESULT = qn; ;};

QName ::= QNAME:qname
    { RESULT = parser.getQNameIgnoreDefaultNs(qname); ;}

    | DIV
    { RESULT = parser.getQNameIgnoreDefaultNs("div"); ;}

```

| MOD  
{: RESULT = parser.getQNameIgnoreDefaultNs("mod"); :}

| KEY  
{: RESULT = parser.getQNameIgnoreDefaultNs("key"); :}

| ANCESTOR  
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| ANCESTORORSELF  
{: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); :}

| ATTRIBUTE  
{: RESULT  
= parser.getQNameIgnoreDefaultNs("attribute"); :}

| CHILD  
{: RESULT = parser.getQNameIgnoreDefaultNs("child"); :}

| DESCENDANT  
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant"); :}

| DESCENDANTORSELF  
{: RESULT = parser.getQNameIgnoreDefaultNs("decendant-or-self"); :}

| FOLLOWING  
{: RESULT = parser.getQNameIgnoreDefaultNs("following"); :}

| FOLLOWINGSIBLING  
{: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); :}

| NAMESPACE  
{: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); :}

| PARENT  
{: RESULT = parser.getQNameIgnoreDefaultNs("parent"); :}

| PRECEDING  
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); :}

| PRECEDINGSIBLING  
{: RESULT = parser.getQNameIgnoreDefaultNs("preceding-sibling"); :}

| SELF  
{: RESULT = parser.getQNameIgnoreDefaultNs("self"); :}

| ID

```
{: RESULT = parser.getQNameIgnoreDefaultNs("id"); :};
```

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup

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\*/

/\*\*

\* Major version number.  
\* Version number. This changes only when there is a  
\* significant, externally apparent  
enhancement from  
\* the previous release. 'n' represents the n'th  
\* version.  
\*  
\* Clients should carefully consider the implications  
\* of new versions as external interfaces and behaviour  
\* may have changed.

\*/

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.java

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\*/

/\*\*

\* This is a special exception that is used to stop parsing when  
\* search for an element. For instance, when searching  
\* for xml:stylesheet  
\* PIs, it is used to stop the parse once the document element is found.  
\* @see StylesheetPIHandler  
\* @xsl.usage internal

\*/

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java

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\*/

/\*

\* \$Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas \$

\*/

/\*

\* @author Jacek Ambroziak

\* @author

```
Santiago Pericas-Geertsen
* @author Morten Jorgensen
*
*/
```

```
package org.apache.xalan.xsltc.compiler;
```

```
import java_cup.runtime.Symbol;
```

```
%%
```

```
%cup
```

```
%unicode
```

```
%class XPathLexer
```

```
%yyeof
```

```
{
```

```
    int last;
```

```
    void initialize() {
```

```
        last = -1;
```

```
    }
```

```
    static boolean isWhitespace(int c) {
```

```
        return (c == ' ' || c == '\t' || c == '\r' || c == '\n' || c == '\f');
```

```
    }
```

```
/**
```

```
 * If symbol is not followed by ':' or '(', then treat it as a
```

```
 * name instead of an axis or function (Jira-1912).
```

```
 */
```

```
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
```

```
    // Peek in the input buffer without changing the internal state
```

```
    int index = yy_buffer_index;
```

```
    // Skip whitespace
```

```
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
```

```
        index++;
```

```
    }
```

```
    // If end of buffer, can't disambiguate :(
```

```
    if (index >= yy_buffer_read) {
```

```
        // Can't disambiguate, so return as symbol
```

```
        return new Symbol(ss);
```

```
    }
```

```
    // Return symbol if next token is ':' or '('
```

```
    return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
```

```
        yy_buffer[index] == '(') ?
```

```

        newSymbol(ss) : newSymbol(sym.QNAME, yytext());
    }

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
        case -1: // first token
        case sym.ATSIGN:
        case sym.DCOLON:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case
sym.MOD:
        case sym.DIV:
        case sym.MULT:
        case sym.SLASH:
        case sym.DSLASH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.QNAME, yytext());
        }
    return newSymbol(ss);
}

/**
 * If symbol is first token or if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * wildcard instead of a multiplication operator
 */
Symbol disambiguateStar() throws Exception {
    switch (last) {
        case -1: // first token
        case sym.ATSIGN:
        case sym.DCOLON:

```

```
case sym.LPAREN:
case sym.LBRACK:
case sym.COMMA:
```

```
case sym.AND:
  case sym.OR:
  case sym.MOD:
  case sym.DIV:
  case sym.MULT:
  case sym.SLASH:
  case sym.DSLASH:
  case sym.VBAR:
  case sym.PLUS:
  case sym.MINUS:
  case sym.EQ:
  case sym.NE:
  case sym.LT:
  case sym.LE:
  case sym.GT:
  case sym.GE:
    return newSymbol(sym.STAR);
  }
  return newSymbol(sym.MULT);
}
```

```
Symbol newSymbol(int ss) {
  last = ss;
  return new Symbol(ss);
}
```

```
Symbol newSymbol(int ss, String value) {
  last = ss;
  return new Symbol(ss, value);
}
```

```
Symbol newSymbol(int ss, Long value) {
  last = ss;
  return new Symbol(ss, value);
}
```

```
Symbol newSymbol(int ss, Double value) {
  last = ss;
  return new
Symbol(ss, value);
}
% }
```

```
%eofval{
```

return newSymbol(sym.EOF);

%eofval }

%yylexthrow {

Exception

%yylexthrow }

Letter={BaseChar} | {Ideographic }

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-\u1112\u1113\u1113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-\u30FA\u3105-\u312C\uAC00-\uD7A3]

Ideographic=[\u4E00-\u9FA5\u3007\u3021-\u3029]

CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-

\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]

Digit=[\u0030-\u0039\u0660-\u0669\u06F0-\u06F9\u0966-\u096F\u09E6-\u09EF\u0A66-\u0A6F\u0AE6-\u0AEF\u0B66-\u0B6F\u0BE7-\u0BEF\u0C66-\u0C6F\u0CE6-\u0CEF\u0D66-\u0D6F\u0E50-\u0E59\u0ED0-\u0ED9\u0F20-\u0F29]

Extender=[\u00B7\u02D0\u02D1\u0387\u0640\u0E46\u0EC6\u3005\u3031-\u3035\u309D-\u309E\u30FC-\u30FE]

NCName=({Letter}|"\_"|{NCNameStartChar})({NCNameChar})\*

NCNameChar={Letter}|{Digit}|"."-""|\_{CombiningChar}|{Extender}|{NCNameStartChar}|  
[\u00B7 | [\u0300-\u036F] | [\u203F-\u2040] | [\u0130-\u0136]

NCNameStartChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u02FF\u0370-\u037D\u037F-\u1FFF\u200C-\u200D\u2070-\u218F\u2C00-\u2FEF\u3001-\uD7FF\uF900-\uFDCF\uFDF0-\uFFFD] | \u005F |({HighSurrogate}{LowSurrogate})

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

```
"*"      { return disambiguateStar(); }
"/"      { return newSymbol(sym.SLASH); }
"+"      { return newSymbol(sym.PLUS); }
"-"      { return newSymbol(sym.MINUS); }
"div"    { return disambiguateOperator(sym.DIV); }
"mod"    { return disambiguateOperator(sym.MOD); }
"::"     { return newSymbol(sym.DCOLON); }
","      { return newSymbol(sym.COMMA); }
"@       { return newSymbol(sym.ATSIGN); }
"..      { return newSymbol(sym.DDOT); }
"|"      { return newSymbol(sym.VBAR); }
"$"      { return newSymbol(sym.DOLLAR); }
"//"     { return newSymbol(sym.DSLASH); }
"="      { return newSymbol(sym.EQ); }
"!="     { return newSymbol(sym.NE); }
"<"     { return newSymbol(sym.LT); }
">"     { return newSymbol(sym.GT); }
"<="    { return newSymbol(sym.LE); }
">="    { return newSymbol(sym.GE); }
"id"     { return disambiguateAxisOrFunction(sym.ID); }
```

```

"key"          { return disambiguateAxisOrFunction(sym.KEY); }
"text()"       { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()" { return newSymbol(sym.TEXT); }
"node()"      { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()" { return newSymbol(sym.NODE); }
"comment()"   { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()" { return newSymbol(sym.COMMENT); }
"processing-instruction"
{ return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()" { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"          { return disambiguateOperator(sym.OR); }
"and"         { return disambiguateOperator(sym.AND); }
"child"       { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"   { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"    { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self" { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"  { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self" { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"   { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling" { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); }
}
"namespace"   { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"      { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"   { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling" { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"        { return disambiguateAxisOrFunction(sym.SELF); }
"["           { return newSymbol(sym.LBRACK); }
"]"           { return newSymbol(sym.RBRACK); }
"("           { return newSymbol(sym.LPAREN); }
")"           { return newSymbol(sym.RPAREN); }
"<PATTERN>"   { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>" { initialize(); return new Symbol(sym.EXPRESSION); }
\[^\]*\      { return newSymbol(sym.Literal,
    yytext().substring(1, yytext().length() - 1)); }
\[^\]*\      { return newSymbol(sym.Literal,
    yytext().substring(1,
    yytext().length() - 1)); }
{Digit}+     { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("."{Digit}*)? { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+  { return newSymbol(sym.REAL, new Double(yytext())); }
"."         { return newSymbol(sym.DOT); }
({NCName}":")?{NCName} { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?""*     { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?""@*    { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f]    { /* ignore white space. */ }
.              { throw new Exception(yytext()); }

```

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex

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\*/  
// Proprietary, built in functions  
/\*\* current function string (Proprietary). \*/

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java

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\*/  
// is found, then throw a special exception in order to terminate

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java

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Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java

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/xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java

\* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java

\* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java

\* /xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java

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\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java

\* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java

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- \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/StringArrayWrapper.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNodeSet.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemText.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/trax/SecuritySupport.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLast.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/RealType.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/DecimalFormatProperties.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources\_zh.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources\_ko.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xml/Utils/res/XResources\_cy.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncId.java
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- /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemPI.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/SecuritySupport.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/output/StringOutputBuffer.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/Utils/XMLStringDefault.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource\_Xerces.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/RtMethodGenerator.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMSafeStringPool.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage\_ca.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemCopy.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerConstants.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemComment.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeSet.java
- \* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Lexer.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/DOM3Serializer.java
- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Predicate.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/SingleNodeCounter.java
- \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/SerializableLocatorImpl.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/EnvironmentCheck.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource.java
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- \* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/TraceManager.java
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  - \* /xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
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  - \* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
  - \* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
  - \* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
  - \* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
  - \* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
  - \* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
  - \* /xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
  - \* /xalan-2-7-2-sources-jar/org/apache/xpath/package.html
  - \* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
  - \* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
  - \* /xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
  - \* /xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
  - \*
  - /xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
  - \* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
  - \* /xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html
- No license file was found, but licenses were detected in source scan.

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```

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* limitations under the License.
*/
/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

/**
 * Administrative class to keep track of the version number of
 * the Serializer release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information.</P>
 * @xsl.usage general
 */
public final class Version
{

    /**
     * Get the basic version string for the current Serializer.
     * Version String formatted like
     * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
     *
     * Futurework: have this read version info from jar manifest.
     *
     * @return String denoting our current version
     */
    public static String getVersion()
    {
        return getProduct()+" "+getImplementationLanguage()+" "
            +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
            +(getDevelopmentVersionNum() > 0) ?
                ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum());
    }

    /**
     * Print the processor version to the command
     line.
     *
     * @param argv command line arguments, unused.
     */
    public static void main(String argv[])
    {
        System.out.println(getVersion());
    }

    /**

```

```

* Name of product: Serializer.
*/
public static String getProduct()
{
    return "Serializer";
}

/**
* Implementation Language: Java.
*/
public static String getImplementationLanguage()
{
    return "Java";
}

/**
* Major version number.
* Version number. This changes only when there is a
*     significant, externally apparent enhancement from
*     the previous release. 'n' represents the n'th
*     version.
*
*     Clients should carefully consider the implications
*     of new versions as external interfaces and behaviour
*     may have changed.
*/
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
* Release Number.
* Release number. This
changes when:
*     - a new set of functionality is to be added, eg,
*     implementation of a new W3C specification.
*     - API or behaviour change.
*     - its designated as a reference release.
*/
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**

```

```

* Maintenance Drop Number.
* Optional identifier used to designate maintenance
*   drop applied to a specific release and contains
*   fixes for defects reported. It maintains compatibility
*   with the release and contains no API changes.
*   When missing, it designates the final and complete
*   development drop for a release.
*/
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
* Development Drop Number.
* Optional identifier designates development drop of
*   a specific release. D01 is the first development
drop
*   of a new release.
*
*   Development drops are works in progress towards a
*   completed, final release. A specific development drop
*   may not completely implement all aspects of a new
*   feature, which may take several development drops to
*   complete. At the point of the final drop for the
*   release, the D suffix will be omitted.
*
*   Each 'D' drops can contain functional enhancements as
*   well as defect fixes. 'D' drops may not be as stable as
*   the final releases.
*/
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
}
}

```

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src

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```
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 * the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
 * PURPOSE.
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 */
```

Found in path(s):

```
*/xalan-2-7-2-sources-jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
No license file was found, but licenses were detected in source scan.
```

```
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
// Proprietary
/** The 'document-location()' id (Proprietary). */
```

Found in path(s):

```
*/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/FunctionTable.java
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```

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```

```

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
 * @deprecated To be replaced by org.apache.xalan.Version.getVersion()
 * @xsl.usage general
 */
public class XSLProcessorVersion
{

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from

```

```

*     the previous release. 'n' represents the n'th
*     version.
*
*     Clients should carefully consider
the implications
*     of new versions as external interfaces and behaviour
*     may have changed.
*/
public static final int VERSION = @version.VERSION@;

/**
* Release Number.
* Release number. This changes when:
*     - a new set of functionality is to be added, eg,
*       implementation of a new W3C specification.
*     - API or behaviour change.
*     - its designated as a reference release.
*/
public static final int RELEASE = @version.RELEASE@;

/**
* Maintenance Drop Number.
* Optional identifier used to designate maintenance
* drop applied to a specific release and contains
* fixes for defects reported. It maintains compatibility
* with the release and contains no API changes.
* When missing, it designates the final and complete
* development drop for a release.
*/
public static final int MAINTENANCE
= @version.MINOR@;

/**
* Development Drop Number.
* Optional identifier designates development drop of
* a specific release. D01 is the first development drop
* of a new release.
*
* Development drops are works in progress towards a
* completed, final release. A specific development drop
* may not completely implement all aspects of a new
* feature, which may take several development drops to
* complete. At the point of the final drop for the
* release, the D suffix will be omitted.
*
* Each 'D' drops can contain functional enhancements as
* well as defect fixes. 'D' drops may not be as stable as
* the final releases.

```

```

*/
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd| <B>D</B>nn]"</CODE>.
 * <P>Semantics of the version string are
 identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
    +VERSION+"."+RELEASE+"."
    +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
    : (""+MAINTENANCE));

}

```

Found in path(s):

```
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src
```

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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

Found in path(s):

```
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XPathLexer.java
```

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```

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>
```

Found in path(s):

```
*/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java
No license file was found, but licenses were detected in source scan.
```

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```

Found in path(s):

```
*/xalan-2-7-2-sources-jar/org/apache/xml/serializer/Encodings.properties
*/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XMLEntities.properties
*/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
*/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
*/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
*/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc
*/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
*/xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
*/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties
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```

```
/*
```

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```

```
* See the License for the specific language governing permissions and
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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
*/
```

Found in path(s):

```
*/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncDoclocation.java
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```

```
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;
```

```
/**
* Administrative
* class to keep track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information. This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
public class Version
```

```

{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."

        +( (getDevelopmentVersionNum() > 0) ?
            ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**

```

\* Major version number.  
\* Version number. This changes only when there is a  
\* significant, externally apparent enhancement from  
\* the previous release. 'n' represents the n'th  
\* version.  
\*  
\* Clients should carefully consider the implications  
\* of new versions as external interfaces and behaviour  
\*  
\* may have changed.

\*/

```
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}
```

/\*\*

\* Release Number.  
\* Release number. This changes when:  
\* - a new set of functionality is to be added, eg,  
\* implementation of a new W3C specification.  
\* - API or behaviour change.  
\* - its designated as a reference release.

\*/

```
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}
```

/\*\*

\* Maintenance Drop Number.  
\* Optional identifier used to designate maintenance  
\* drop applied to a specific release and contains  
\* fixes for defects reported. It maintains compatibility  
\* with the release and contains no API changes.  
\* When missing, it designates the final and complete  
\* development drop for a release.

\*/

```
public static int getMaintenanceVersionNum()
{
    return
@version.MINOR@;
}
```

/\*\*

\* Development Drop Number.  
\* Optional identifier designates development drop of

```

*    a specific release. D01 is the first development drop
*    of a new release.
*
*    Development drops are works in progress towards a
*    completed, final release. A specific development drop
*    may not completely implement all aspects of a new
*    feature, which may take several development drops to
*    complete. At the point of the final drop for the
*    release, the D suffix will be omitted.
*
*    Each 'D' drops can contain functional enhancements as
*    well as defect fixes. 'D' drops may not be as stable as
*    the final releases.
*/
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}
}
}

```

Found in path(s):

\* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

## 1.193 jakarta-annotation-api 1.3.4

### 1.193.1 Available under license :

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\* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/NoFieldException.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/InnerClassesAttribute.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Subroutine.java  
\*  
/javassist-3-22-0-cr2-sources-4-jar/javassist/runtime/Cflow.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/AnnotationImpl.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/FactoryHelper.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/Transformer.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SyntheticAttribute.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Reflection.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Instanceof.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/SecurityActions.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ByteStream.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/SyntaxError.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/CannotReflectException.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformCall.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewWrappedMethod.java  
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\* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/AssignExpr.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtArray.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtPrimitiveType.java  
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\* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/MemberResolver.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/MethodDecl.java  
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\* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/BasicBlock.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/CodeAnalyzer.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/JvstCodeGen.java  
\* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/StackMap.java  
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 \* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtMember.java  
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 \* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewClass.java  
 \* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/Callback.java  
 \* /javassist-3-22-0-cr2-sources-4-jar/javassist/Modifier.java  
 \* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/TypeTag.java  
 \* /javassist-3-22-0-cr2-sources-4-jar/javassist/runtime/Inner.java  
 \* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/FramePrinter.java  
 \* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/StubGenerator.java  
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- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/Opcode.java
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- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Pair.java
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- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/MethodHandler.java
- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtConstructor.java
- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/AnnotationsWriter.java
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- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/StringL.java
- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewNestedClass.java
- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Member.java
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- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/AttributeInfo.java
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- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/FieldInfo.java
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- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/BinExpr.java
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- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Handler.java
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- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformNew.java
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- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Expr.java
- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewWrappedConstructor.java
- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/ByteArrayClassPath.java
- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtBehavior.java
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- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/MapMaker.java
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- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/web/Viewer.java
- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/CannotCreateException.java
- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/KeywordTable.java
- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/Parser.java
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- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/TokenId.java
- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/AppletServer.java
- \* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/CodeAttribute.java
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- \* /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/Decoder.java
- \* /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/language/SoundexUtils.java
- \* /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/StringDecoder.java
- \* /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/BinaryDecoder.java
- \* /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/EncoderException.java
- \* /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/language/DoubleMetaphone.java

## 1.197 clang 6.0.0

### 1.197.1 Available under license :

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

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Found in path(s):

- \* /clang-6-0-0-tar-gz/clang-6.0.0/clang/\_\_init\_\_.py
- \* /clang-6-0-0-tar-gz/clang-6.0.0/examples/cindex/cindex-dump.py
- \* /clang-6-0-0-tar-gz/clang-6.0.0/examples/cindex/cindex-includes.py
- \* /clang-6-0-0-tar-gz/clang-6.0.0/clang/enumerations.py
- \* /clang-6-0-0-tar-gz/clang-6.0.0/clang/cindex.py

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Metadata-Version: 1.0

Name: clang

Version: 6.0.0

Summary: UNKNOWN

Home-page: <https://github.com/ethanhs/clang>

Author: Ethan Smith

Author-email: [ethan@ethanhs.me](mailto:ethan@ethanhs.me)

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Description: UNKNOWN

Platform: UNKNOWN

Found in path(s):

- \* /clang-6-0-0-tar-gz/clang-6.0.0/clang.egg-info/PKG-INFO
- \* /clang-6-0-0-tar-gz/clang-6.0.0/PKG-INFO

## 1.198 jakarta-ws-rs-api 2.1.5

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- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm

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org.apache.tomcat:tomcat-jasper

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org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## Source Code

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\* <https://github.com/eclipse-ee4j/jersey>

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- /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/AbstractInsnNode.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/Label.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/Item.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/Type.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/LabelNode.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/MethodNode.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/util/TraceMethodVisitor.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/BasicValue.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/LocalVariableNode.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/Handler.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/MethodVisitor.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/util/TraceFieldVisitor.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/Frame.java
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- /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/Method.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/util/AbstractVisitor.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/FieldVisitor.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/EmptyVisitor.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/InsnNode.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/SimpleRemapper.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/ClassVisitor.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/MethodAdapter.java
- \*
- /asm-all-3-2-sources-2-jar/org/objectweb/asm/util/CheckClassAdapter.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/GeneratorAdapter.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/util/ASMifierAnnotationVisitor.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/Interpreter.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/ByteVector.java
- \* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java

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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/AnnotationNode.java
* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
*
/asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/IntInsnNode.java
* /asm-all-3-2-sources-2-jar/org/objectweb/asm/Attribute.java
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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/Opcodes.java
* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/Analyzer.java
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/**

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\* /asm-all-3-2-sources-2-jar/org/objectweb/asm/util/ASMifiable.java  
\* /asm-all-3-2-sources-2-jar/org/objectweb/asm/util/Traceable.java

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## 1.212 cJSON 1.7.14

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Also thanks to all the people who reported bugs and suggested new features.

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## 1.213 tdb 1.4.3

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <[Cyan4973@github.com](mailto:Cyan4973@github.com)>

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

Files: \*

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# 1.215 tomcat-api 8.5.32

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```

```
jar/com/azure/core/serializer/json/jackson/JacksonJsonSerializerBuilder.java
```

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## 1.226 tomcat-juli 8.5.32

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# 1.227 libiconv 1.14\_11

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```

Found in path(s):

```
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```

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## 1.239 tomcat-coyote 8.5.32

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Found in path(s):

\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/servlet/ServletRequestContext.java

\*  
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/modules/ModelerSource.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/ParameterInfo.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/ProgressListener.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLUtil.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/DiskFormItem.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/AttributeInfo.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FormItemHeadersSupport.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/NioSelectorPool.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SecureNio2Channel.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/NioBlockingSelector.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/mime/QuotedPrintableDecoder.java  
 \*  
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/ParameterParser.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/AbstractEndpoint.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SocketProperties.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/HttpParser.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/modules/MbeansDescriptorsIntrospectionSource.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLX509Certificate.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/package-info.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/Closeable.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/Cookie.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLSessionContext.java  
 \*  
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLKeyManager.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/Authorization.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUploadBase.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/UploadContext.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/LimitedInputStream.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FormItemHeaders.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/BaseAttributeFilter.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLEngine.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLContext.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/DiskFormItemFactory.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/log/UserDataHelper.java  
 \*  
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/mime/MimeUtility.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FormItemIterator.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/Streams.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/RequestUtil.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FormItemFactory.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/ApplicationBufferHandler.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/BaseModelMBean.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/NioChannel.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/Nio2Channel.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/package-info.java

\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/BaseNotificationBroadcaster.java  
\*  
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/servlet/package-info.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/IOUtils.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLProtocols.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/RequestContext.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/NotificationInfo.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItem.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/RegistryMBean.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/mime/ParseException.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/servlet/ServletFileUpload.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/OperationInfo.java  
\*  
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/MultipartStream.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/FileItemHeadersImpl.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLImplementation.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/Registry.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SecureNioChannel.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/Host.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/ByteArrayOutputStream.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/ThresholdingOutputStream.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/FeatureInfo.java  
\* /tomcat-coyote-8-5-32-sources-1-  
jar/org/apache/tomcat/util/modeler/modules/MbeansDescriptorsDigesterSource.java  
\*  
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/DeferredFileOutputStream.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/disk/package-info.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUploadException.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileItemStream.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/SkipResult.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/ManagedBean.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/InvalidFileNameException.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/util/mime/package-info.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUtils.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUpload.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLSessionStats.java

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/\*\*

\* Return the initialization parameters for the TrustManager.

\* Currently, only the default <code>PKIX</code>

is supported.

\*

\* @param crlf The path to the CRL file.

\* @param trustStore The configured TrustStore.

\* @param revocationEnabled Should the JSSE provider perform revocation

\* checks? Ignored if { @code crlf } is non-null.

\* Configuration of revocation checks are expected

\* to be via proprietary JSSE provider methods.

\* @return The parameters including the CRLs and TrustStore.

\* @throws Exception An error occurred

\*/

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\*

/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/EnumElementValue.java

\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/JavaClass.java

\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ClassElementValue.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ClassFormatException.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/Annotations.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/AnnotationElementValue.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantInteger.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ElementValuePair.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/Constant.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantDouble.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/AnnotationEntry.java  
\*  
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/SimpleElementValue.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantClass.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ClassParser.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantFloat.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ArrayElementValue.java  
\* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantPool.java

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- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Flags.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11Protocol.java
- \*
- /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/AsyncStateMachine.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SendfileKeepAliveState.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/AprEndpoint.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLUtil.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/Constants.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/HPackHuffman.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/jsse/JSSEKeyManager.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpNio2Protocol.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SendfileDataBase.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11NioProtocol.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2Exception.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/Request.java
- \*
- /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/RequestGroupInfo.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/HttpMessages.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLConfCmd.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/Cipher.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/AbstractHttp11JsseProtocol.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/OutputFilter.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/VoidInputFilter.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/HeaderSink.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/log/SystemLogHandler.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/AprSSLSupport.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/UpgradeServletInputStream.java
- \*
- /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLSessionManager.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLHostConfigCertificate.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AbstractAjpProtocol.java
- \* /tomcat-coyote-8-5-32-sources-1-
- jar/org/apache/tomcat/util/net/openssl/ciphers/OpenSSLCipherConfigurationParser.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/BufferedInputFilter.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/VoidOutputFilter.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ElementValue.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/EncryptionLevel.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/AbstractStream.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/AbstractHttp11Protocol.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/CookieProcessor.java

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 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/OpenSSLConf.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SocketBufferHandler.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SocketWrapperBase.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/Response.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/jsse/JSSSSLContext.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/ServerCookies.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/HpackEncoder.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLImplementation.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/Protocol.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/UpgradeProcessorInternal.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/HttpOutputBuffer.java  
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 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/UpgradeProcessorExternal.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/UpgradeProtocol.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/InternalHttpUpgradeHandler.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11Nio2Protocol.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpProtocol.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/ServerCookie.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/jsse/JSSIImplementation.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/ConnectionSettingsLocal.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/MessageDigest.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/DispatchType.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2Error.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/AbstractProcessorLight.java  
 \*  
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/InputBuffer.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ContainerThreadMarker.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/AsyncContextCallback.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/MimeHeaders.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/SavedRequestInputFilter.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2Protocol.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Constants.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpAprProtocol.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/TLSCClientHelloExtractor.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/UpgradeServletOutputStream.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/StreamStateMachine.java  
 \*  
 /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/ConnectionException.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/HpackException.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/ByteUtil.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/AbstractProtocol.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/AbstractProcessor.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/IdentityInputFilter.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Setting.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/Encryption.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/jsse/PEMFile.java  
 \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpNioProtocol.java

- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/Constants.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Stream.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/jsse/JSSupport.java
- \*
- /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLContext.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/CompressionConfig.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ActionCode.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ErrorMessage.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/Constants.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantUtf8.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/Util.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/InputStreamFilter.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2Parser.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/ChunkedInputStreamFilter.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SendfileState.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/GzipOutputStreamFilter.java
- \*
- /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/AcceptLanguage.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/StreamException.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/Nio2Endpoint.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLHostConfig.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/HpackDecoder.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/FrameType.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Constants.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/log/CaptureLog.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/IdentityOutputStreamFilter.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11AprProtocol.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLSupport.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/HeadersTooLargeException.java
- \*
- /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/Adapter.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/MediaTypeCache.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/NioEndpoint.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpProcessor.java
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- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/ChunkedOutputStreamFilter.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/Rfc6265CookieProcessor.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/Authentication.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/LegacyCookieProcessor.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/UpgradeProcessorBase.java
- \*
- /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/Processor.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ProtocolHandler.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/FastDateFormat.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2OutputStreamBuffer.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11InputStreamBuffer.java
- \* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SocketProcessorBase.java

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* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/RequestInfo.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SSLUtilBase.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ActionHook.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/ConnectionSettingsRemote.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/AbstractJsseEndpoint.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/Parameters.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/UpgradeToken.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Hpack.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/AjpMessage.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/CookieProcessorBase.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/CloseNowException.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/ConnectionSettingsBase.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11Processor.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/StreamProcessor.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/Utility.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SocketEvent.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11OutputBuffer.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ProtocolException.java
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2UpgradeHandler.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/MediaType.java
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/OutputBuffer.java

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```

* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/parser/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/res/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/upgrade/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/LocalStrings.properties
*
/tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/ajp/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/jsse/LocalStrings.properties
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/LocalStrings.properties

```

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 */

```

Found in path(s):

`*/tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/Const.java`

## 1.240 trove4j 2.1.0

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# 1.241 tokyo-cabinet 1.2.11

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Any executables

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## 1.243 tomcat-jasper 8.5.32

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## 1.246 tomcat-jni 8.5.32

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## 1.247 tomcat-catalina-ha 8.5.32

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```
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*
 /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagData.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/ELParseException.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/JspException.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagLibraryValidator.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/JspContext.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/DynamicAttributes.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TryCatchFinally.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/IterationTag.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/FunctionInfo.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/Tag.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagFileInfo.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/HttpJspPage.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagExtraInfo.java
*
```

/tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagInfo.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/SimpleTagSupport.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/JspFragment.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/FunctionMapper.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/ImplicitObjectELResolver.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/JspFactory.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/JspPage.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagSupport.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/JspTag.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/PageData.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/Expression.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/PageContext.java  
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\*  
/tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/BodyTag.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/ErrorData.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/SkipPageException.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/JspApplicationContext.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/JspTagException.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagLibraryInfo.java  
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\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/ValidationMessage.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/VariableResolver.java  
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\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagVariableInfo.java  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/BodyContent.java

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Found in path(s):

\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/resources/jspxml.dtd  
\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/resources/jspxml.xsd

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Found in path(s):

\* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/JspIdConsumer.java

# 1.249 tomcat-jaspic-api 8.5.32

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 */
```

Found in path(s):

```
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/AuthStatus.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/AuthConfigProvider.java
*
/tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/AuthConfig.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/module/ServerAuthModule.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/ServerAuthConfig.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/ServerAuth.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/RegistrationListener.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/ClientAuthContext.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/ServerAuthContext.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/CallerPrincipalCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/MessagePolicy.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/AuthConfigFactory.java
*
/tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/AuthException.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/GroupPrincipalCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/config/ClientAuthConfig.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/SecretKeyCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/PasswordValidationCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/ClientAuth.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/module/ClientAuthModule.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/MessageInfo.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/TrustStoreCallback.java
* /tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/CertStoreCallback.java
```

\*

/tomcat-jaspic-api-8-5-32-sources-1-jar/javax/security/auth/message/callback/PrivateKeyCallback.java

# 1.250 tomcat-i18n-ja 8.5.32

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# 1.251 tomcat-websocket-api 8.5.32

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## 1.252 tomcat-util-scan 8.5.32

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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```

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+++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

Keith

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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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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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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## 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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<name of author>
```

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

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

Here is a sample; alter the names:

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

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

Developers that use the GNU GPL protect your rights with two steps:

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

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

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

## TERMS AND CONDITIONS

### 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.

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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

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

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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#### 1. Source Code.

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

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

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

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.

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section 10

makes it unnecessary.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

### 5. Conveying Modified Source Versions.

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

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- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- 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.

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\* ~~~~~

\*

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## 1.275 bash 5.1.4

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# 1.278 alabaster 0.7.6

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# 1.279 binutils 2.35.50

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+++++

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

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

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

ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

Keith

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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Version 3, 29 June 2007

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## 1.281 gmp 6.2.1

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# 1.282 go-toml 1.9.0

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## 1.284 tevent 0.10.2

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# 1.288 nginx 1.12.1

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## 1.289 coverage 3.6

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```

Found in path(s):

```
* /coverage-3-6-tar-gz/coverage-3.6/coverage/__init__.py
```

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```
/**
```

```
* QUnit - A JavaScript Unit Testing Framework
```

```
*
```

```
* http://docs.jquery.com/QUnit
```

```
*
```

```
* Copyright (c) 2011 John Resig, Jörn Zaefferer
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```

```
*/
```

```
/**
 * jsDump
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com | http://flesler.blogspot.com
 * Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
 * Date: 5/15/2008
 * @projectDescription Advanced and extensible data dumping for Javascript.
 * @version 1.0.0
 * @author Ariel Flesler
 * @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
 */
/*
 * Javascript Diff Algorithm
 * By John Resig (http://ejohn.org/)
 * Modified by Chu Alan "sprite"
 *
 * Released under the MIT license.
 *
 * More Info:
 * http://ejohn.org/projects/javascript-diff-algorithm/
 *
 * Usage: QUnit.diff(expected, actual)
 *
 * QUnit.diff("the quick brown
fox jumped over", "the quick fox jumps over") == "the quick <del>brown </del> fox <del>jumped
</del><ins>jumps </ins> over"
 */
```

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```
* /coverage-3-6-tar-gz/coverage-3.6/test/qunit/qunit.js
```

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```
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 * jQuery Templates Plugin 1.0.0pre
 * http://github.com/jquery/jquery-tmpl
 * Requires jQuery 1.4.2
 *
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 */
```

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```
* /coverage-3-6-tar-gz/coverage-3.6/test/qunit/jquery.templ.min.js
```

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# 1.290 libdwarf 20161124

## 1.290.1 Available under license :

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Version 2.1, February 1999

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\*/

/\* dsc\_type: if 0, then dsc\_low is a single discriminant value  
and dsc\_high is zero..

If 1, then dsc\_low, dsc\_high are a discriminant range

All the messy complexity here is so we can have both

a set of values read as uleb and as sleb.

We make our own copy of the block for the same reason.

\*/

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17 March 2014:Updated to

remove reference to dwarf.v2.mm.

# 1.291 openjdk-jre 1.8.0u131

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```
## zlib v1.2.11
```

```
### zlib License
```

```
<pre>
```

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

```
</pre>  
## Little Color Management System (LCMS) v2.9
```

```
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	GL/ glxext.h	Khronos
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include/GL/glxext.h
include/GL/wglxext.h :
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## jopt-simple v5.0.4

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## 1.292 websocket-client 0.59.0

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Version 2.1, February 1999

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```
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```

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```

```
## Commands to generate dependency files
```

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

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

```
## Flags for position independent code
```

```
SHAREDLIBCFLAGS = -fPIC
```

```
SHAREDLIBCXXFLAGS = -fPIC
```

```
SHAREDLIBCPPFLAGS = -DPIC
```

```
## Additional flags when building libraries and with threads
```

```
THREADSCPPFLAGS = -D_REENTRANT
```

```
LIBCPPFLAGS =
```

```
## Compiler switch to embed a runtime search path
```

```

LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

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

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

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

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

## Versioned libraries rules

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

## Bind internal references

```

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

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

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

```
## End BSD-specific setup
```

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# 1.302 dom 1.0

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*/
/**
```

```
    * Checks if this content model has had its min/maxOccurs values reduced for
    * purposes of speeding up UPA. If
so, this content model should not be used
    * for any purpose other than checking unique particle attribution
    *
    * @return a boolean that says whether this content has been compacted for UPA
    */
```

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```

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* limitations under the License.
*/
/**
 * used to check the 3 constraints against each complex type
 * (should be each model group):
 * Unique Particle
Attribution, Particle Derivation (Restriction),
 * Element Declarations Consistent.
 */
```

Found in path(s):

```
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\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java

\*

/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java

\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java

\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java

\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java

\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java

\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java

\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java

\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java

\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java

\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java

\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java

\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java

\*  
/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java  
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\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DOMMessages.properties  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XPointerMessages.properties  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DatatypeMessages.properties  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message\_fr.properties  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/SAXMessages.properties  
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/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XIncludeMessages.properties  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessages.properties  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message\_ja.properties  
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\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObject.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMImplementationAS.java  
\*

/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASModel.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentAS.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASElementDeclaration.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java  
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\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASWriter.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentEditAS.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java  
\*  
/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASException.java  
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/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptgroupElement.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLImgElement.java  
\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java

\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTimerElementImpl.java  
 \*  
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSParticle.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLWmlElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/StringList.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTimerElement.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAnchorElement.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHtmlElementImpl.java  
 \*  
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/DefaultNamespaceContext.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSException.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLQuoteElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EncodingMap.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java  
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 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLCatalogResolver.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTitleElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLElementDecl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java  
 \*  
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLSelectElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLabelElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFieldSetElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLCardElementImpl.java

- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ShortListImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/util/Base64.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CDATASectionImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/CMBuilder.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLMetaElement.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/XSSimpleType.java
- \*
- /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDelegate.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/ElementImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/UIEventImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Method.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/EntityReferenceImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/ByteList.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBodyElementImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLNSDTDValidator.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMBinOp.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredAttrImpl.java
- \*
- /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DOMUtil.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLIElementImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/ElementSchemePointer.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultElement.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/SoftReferenceGrammarPool.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/AttrNSImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/DurationImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTdElementImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityDescription.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDScanner.java
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- /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SecurityManager.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSModel.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLErrorCode.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/FieldActivator.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ParentNode.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XIntPool.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCellElementImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaSymbols.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ObjectFactory.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/UTF16Reader.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/TextImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMStringListImpl.java

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 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/NonValidatingConfiguration.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLImageElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DecimalDV.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSModelImpl.java  
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 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java  
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 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameSetElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLNamespaceBinder.java

\* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLGrammarPreparser.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBRElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/RangeExceptionImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/PSVProvider.java  
 \*  
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaException.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSNamedMap.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLStyleElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/validation/ValidationManager.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EntityResolver2Wrapper.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSElementDecl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMParser.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLIElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSParticleDecl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/ContentModelValidator.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/StAXInputSource.java  
 \*  
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLContentSpec.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DocumentTypeImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLOptionElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLInputElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/AttributePSVImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLSelectElement.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLString.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableRowElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLOListElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java  
 \*  
 /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLDTDSscannerImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLInputElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/SecureProcessingConfiguration.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentFilter.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSObjectListImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NamedNodeMapImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSFacet.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLGoElementImpl.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java  
 \*  
 /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Printer.java  
 \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDProcessor.java

- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLRefreshElementImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParserForXMLSchema.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMNormalizer.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLIsIndexElementImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/SimpleContentModel.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredDocumentImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSSimpleTypeDefinition.java
- \*
- /xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/EmptyLocation.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/SerializerFactory.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/HTTPInputSource.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Encodings.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSAttributeUse.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/BaseMarkupSerializer.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/CharactersImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredDOMImplementationImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/XMLEventFactoryImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/JAXPNamespaceContextWrapper.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/NamespaceSupport.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDocumentHandler.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMLocatorImpl.java
- \*
- /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/LSInputListImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSDeclarationPool.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMBinOp.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/ExtendedSchemaDVFactoryImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDValidator.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/EntityDV.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SymbolTable.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityScanner.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityManager.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
- \*
- /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOptGroupElementImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/DVFactoryException.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDocumentImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptionElement.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLPElement.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOptionElementImpl.java
- \* /xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLElement.java

```

* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLParamElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11DTDDVFactoryImpl.java
*
/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParseException.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLAnchorElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLModElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDocumentImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementNSImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java
*
/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSAllCM.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDoElementImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/html/dom/NameNodeListImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/UCSReader.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/RevalidationHandler.java
*
/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSValue.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NodeImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/AttributesProxy.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
No license file was found, but licenses were detected in source scan.

```

```

/*

```

```

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* limitations under the License.
*/
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new LSParser. The newly constructed parser may
 *
then be configured by means of its DOMConfiguration
 * object, and used to parse documents by means of its parse
 * method.
 * @param mode The mode argument is either
 * MODE_SYNCHRONOUS or MODE_ASYNCHRONOUS, if
 * mode is MODE_SYNCHRONOUS then the
 * LSParser that is created will operate in synchronous
 * mode, if it's MODE_ASYNCHRONOUS then the
 * LSParser that is created will operate in asynchronous
 * mode.
 * @param schemaType An absolute URI representing the type of the schema
 * language used during the load of a Document using the
 * newly created LSParser. Note that no lexical checking
 * is done on the absolute URI. In order to create a
 * LSParser for any kind of schema types (i.e. the
 * LSParser will be free to use any schema
found), use the value
 * null.
 * 

Note: For W3C XML Schema [XML Schema Part 1]
 * , applications must use the value
 * "http://www.w3.org/2001/XMLSchema". For XML DTD [XML 1.0],
 * applications must use the value
 * "http://www.w3.org/TR/REC-xml". Other Schema languages
 * are outside the scope of the W3C and therefore should recommend an
 * absolute URI in order to use this method.
 * @return The newly created LSParser object. This
 * LSParser is either synchronous or asynchronous
 * depending on the value of the mode argument.
 * 

Note: By default, the newly created LSParser
 * does not contain a DOMErrorHandler, i.e. the value of
 * the "parameter-error-
handler"


```

```
* error-handler</a>" configuration parameter is <code>>null</code>. However, implementations
* may provide a default error handler at creation time. In that case,
* the initial value of the <code>"error-handler"</code> configuration
* parameter on the new created <code>LSParser</code> contains a
* reference to the default error handler.
* @exception DOMException
* NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
* not supported.
*/
```

Found in path(s):

```
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
```

Found in path(s):

```
* /xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java
```

## 1.303 constantine 0.7

### 1.303.1 Available under license :

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

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
<modelVersion>4.0.0</modelVersion>
<groupId>org.jruby.extras</groupId>
<artifactId>constantine</artifactId>
<packaging>jar</packaging>
<version>0.7</version>
<name>constantine</name>
```

```

<description>A set of platform constants (e.g. errno values)</description>
<url>http://constantine.kenai.com</url>
<licenses>
  <license>
    <name>The MIT License</name>
    <url>http://www.opensource.org/licenses/mit-license.php</url>
    <distribution>repo</distribution>
  </license>
</licenses>
<scm>
  <connection>scm:hg:https://kenai.com/hg/constantine~mercurial</connection>
  <url>https://kenai.com/hg/constantine~mercurial</url>
</scm>
<distributionManagement>
  <repository>
    <id>codehaus-jruby-repository</id>
    <name>JRuby Central Repository</name>
    <url>dav:https://dav.codehaus.org/repository/jruby</url>
  </repository>
  <snapshotRepository>
    <id>codehaus-jruby-snapshot-repository</id>
    <name>JRuby Central Development Repository</name>
    <url>dav:https://dav.codehaus.org/snapshots.repository/jruby</url>
  </snapshotRepository>
</distributionManagement>
<repositories>
  <repository>
    <id>maven2-repository.dev.java.net</id>
    <name>Java.net Repository for Maven</name>
    <url>http://download.java.net/maven/2/</url>
  </repository>
  <repository>
    <id>codehaus</id>
    <name>Codehaus Repository</name>
    <releases>
      <enabled>true</enabled>
    </releases>
    <snapshots>
      <enabled>>false</enabled>
    </snapshots>
    <url>http://repository.codehaus.org</url>
  </repository>
</repositories>

<developers>
  <developer>
    <id>wmeissner</id>
    <name>Wayne Meissner</name>

```

```

    <email>wmeissner@gmail.com</email>
  </developer>
</developers>

<dependencies>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.5</version>
    <scope>test</scope>
  </dependency>
</dependencies>
<build>
  <directory>build</directory>
  <outputDirectory>build/classes</outputDirectory>
  <testOutputDirectory>build/test/classes</testOutputDirectory>
  <sourceDirectory>src</sourceDirectory>
  <testSourceDirectory>test</testSourceDirectory>
  <resources>
  </resources>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>2.0.2</version>
      <configuration>
        <source>1.5</source>
        <target>1.5</target>
      </configuration>
    </plugin>
  </plugins>
  <extensions>
    <extension>
      <groupId>org.jvnet.wagon-svn</groupId>
      <artifactId>wagon-svn</artifactId>

<version>1.8</version>
    </extension>
    <extension>
      <groupId>org.apache.maven.wagon</groupId>
      <artifactId>wagon-webdav</artifactId>
    </extension>
  </extensions>
</build>
<reporting>
  <outputDirectory>build/report</outputDirectory>
</reporting>
</project>

```

Found in path(s):

\* /constantine-0-7-jar-zip/constantine-0-7-jar/META-INF/maven/org.jruby.extras/constantine/pom.xml

## 1.304 jaffl 0.5.1

### 1.304.1 Available under license :

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

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>org.jruby.extras</groupId>
  <artifactId>jaffl</artifactId>
  <packaging>jar</packaging>
  <version>0.5.12</version>
  <name>jaffl</name>
  <description>An abstracted interface to invoking native functions from java</description>
  <url>http://github.com/wmeissner/jaffl</url>
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
    </license>
  </licenses>
  <scm>
    <connection>scm:git:http://github.com/wmeissner/jaffl.git</connection>
    <url>http://github.com/wmeissner/jaffl</url>
  </scm>
  <distributionManagement>
    <repository>
      <id>codehaus-jruby-repository</id>
      <name>JRuby Central Repository</name>
      <url>dav:https://dav.codehaus.org/repository/jruby</url>
    </repository>
    <snapshotRepository>
      <id>codehaus-jruby-snapshot-repository</id>
      <name>JRuby Central Development Repository</name>
      <url>dav:https://dav.codehaus.org/snapshots.repository/jruby</url>
    </snapshotRepository>
  </distributionManagement>
  <repositories>
    <repository>
      <id>maven2-repository.dev.java.net</id>
      <name>Java.net Repository for Maven</name>
      <url>http://download.java.net/maven/2/</url>
```

```

</repository>
<repository>
  <id>codehaus</id>
  <name>Codehaus Repository</name>
  <releases>
    <enabled>true</enabled>
  </releases>
  <snapshots>
    <enabled>true</enabled>
  </snapshots>
  <url>http://repository.codehaus.org</url>
</repository>
</repositories>
<pluginRepositories>
  <pluginRepository>
    <id>maven2-repository.dev.java.net</id>
    <name>Java.net Repository for Maven</name>
    <url>http://download.java.net/maven/2/</url>
  </pluginRepository>
</pluginRepositories>
<developers>
  <developer>
    <id>wmeissner</id>
    <name>Wayne Meissner</name>
    <email>wmeissner@gmail.com</email>
  </developer>
</developers>
<properties>
  <maven.test.failure.ignore>true</maven.test.failure.ignore>
</properties>
<dependencies>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.5</version>
    <scope>test</scope>
  </dependency>
  <dependency>
    <groupId>org.jruby.extras</groupId>
    <artifactId>jffi</artifactId>
    <version>1.0.6</version>
    <scope>compile</scope>
  </dependency>
  <dependency>
    <groupId>org.jruby.extras</groupId>
    <artifactId>jffi</artifactId>
    <version>1.0.6</version>
    <scope>runtime</scope>

```

```

    <classifier>native</classifier>
  </dependency>
</dependency>
  <groupId>asm</groupId>
  <artifactId>asm</artifactId>
  <version>3.2</version>
  <scope>compile</scope>
</dependency>
</dependency>
  <groupId>asm</groupId>
  <artifactId>asm-commons</artifactId>
  <version>3.2</version>
  <scope>compile</scope>
</dependency>
</dependency>
  <groupId>org.jruby.extras</groupId>
  <artifactId>jnr-x86asm</artifactId>
  <version>1.0.0</version>
  <scope>compile</scope>
</dependency>
</dependencies>
<build>
  <sourceDirectory>src</sourceDirectory>
  <testSourceDirectory>test</testSourceDirectory>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>2.0.2</version>
      <configuration>
        <source>1.5</source>
        <target>1.5</target>
      </configuration>
    </plugin>
    <plugin>
      <artifactId>maven-antrun-plugin</artifactId>
      <version>1.1</version>
      <executions>
        <execution>
          <phase>test-compile</phase>
          <configuration>
            <tasks>
              <exec dir="${basedir}" executable="make" failOnError="true">
                <arg line="-f libtest/GNUMakefile"/>
                <arg line="BUILD_DIR=${build.directory}"/>
              </exec>
            </tasks>
          </configuration>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>

```

```

    <goals>
      <goal>run</goal>
    </goals>
  </execution>
</executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-surefire-plugin</artifactId>
  <version>2.4.2</version>
  <configuration>
    <systemProperties>
      <property>
        <name>jna.library.path</name>
        <value>${build.directory}</value>
      </property>
    </systemProperties>
  </configuration>
</plugin>
</plugins>
<extensions>
  <extension>
    <groupId>org.jvnet.wagon-svn</groupId>
    <artifactId>wagon-svn</artifactId>
    <version>1.8</version>
  </extension>
  <extension>
    <groupId>org.apache.maven.wagon</groupId>
    <artifactId>wagon-webdav</artifactId>
  </extension>
</extensions>
</build>
<reporting>
  <outputDirectory>build/report</outputDirectory>
</reporting>
</project>

```

Found in path(s):

\* /jaffl-0-5-12-jar/META-INF/maven/org.jruby.extras/jaffl/pom.xml

## 1.305 jnr-netdb 0.4

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```
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```

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Section

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```

Found in path(s):

```
* /stateless4j-2-5-0-sources-jar/com/github/oxo42/stateless4j/delegates/FuncBoolean.java
* /stateless4j-2-5-0-sources-jar/com/github/oxo42/stateless4j/OutVar.java
```

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.  
It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
<title>Copyright Test</title>
<articleinfo>
<copyright>
<year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
```

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</copyright>
<copyright>
  <year>2018</year> <holder>Joe Blow, John Coe</holder>
</copyright>
<copyright>
  <year>1977</year> <year>1985</year> <holder>Someone else</holder>
</copyright>
</articleinfo>
</article>
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Copyright (c) 2007-2011 Barend Gehrels, Amsterdam, the Netherlands.
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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---

////

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////

[#mpl]

# MPL Support, <boost/mp11/mpl.hpp>

:toc:

:toc-title:

:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

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

#### HISTORY -

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

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,

the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser.

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

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

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

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied

the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the

code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the

experimentation that led to the

current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

# 1.314 elfutils 0.170-1

## 1.314.1 Available under license :

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## 1.320 future 5.1.0

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Package: future

Version: 1.23.0-9006

Title: Unified Parallel and Distributed Processing in R for Everyone

Imports:

digest,  
globals ( $\geq 0.14.0$ ),  
listenv ( $\geq 0.8.0$ ),  
parallel,  
parallelly ( $\geq 1.30.0$ ),  
tools,  
utils

Suggests:  
RhpCBLASctI,  
R.rsp,  
markdown

VignetteBuilder: R.rsp

Authors@R: c(person("Henrik", "Bengtsson", role=c("aut", "cre", "cph"),  
email = "henrikb@braju.com"))

Description: The purpose of this package is to provide a lightweight and unified Future API for sequential and parallel processing of R expression via futures. The simplest way to evaluate an expression in parallel is to use ``x %<-% { expression }`` with ``plan(multisession)``. This package implements sequential, multicore, multisession, and cluster futures. With these, R expressions can be evaluated on the local machine, in parallel a set of local machines, or distributed on a mix of local and remote machines. Extensions to this package implement additional backends for processing futures via compute cluster schedulers, etc. Because of its unified API, there is no need to modify any code in order to switch from sequential on the local machine to, say, distributed processing on a remote compute cluster. Another strength of this package is that global variables and functions are automatically identified and exported as needed, making it straightforward to tweak existing code to make use of futures.

License: LGPL ( $\geq 2.1$ )

LazyLoad: TRUE

ByteCompile: TRUE

URL: <https://future.futureverse.org>, <https://github.com/HenrikBengtsson/future>

BugReports: <https://github.com/HenrikBengtsson/future/issues>

RoxygenNote: 7.1.2

Roxygen: list(markdown = TRUE)

Found in path(s):  
\* /future-develop-zip/future-develop/DESCRIPTION  
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# Contributor Covenant Code of Conduct

## Our Pledge

We as members, contributors, and leaders pledge to make participation in our

community a harassment-free experience for everyone, regardless of age, body size, visible or invisible disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

We pledge to act and interact in ways that contribute to an open, welcoming, diverse, inclusive, and healthy community.

### ## Our Standards

Examples of behavior that contributes to a positive environment for our community include:

- \* Demonstrating empathy and kindness toward other people
- \* Being respectful of differing opinions, viewpoints, and experiences
- \* Giving and gracefully accepting constructive feedback
- \* Accepting responsibility and apologizing to those affected by our mistakes, and learning from the experience
- \* Focusing on what is best not just for us as individuals, but for the overall community

Examples of unacceptable behavior include:

- \* The use of sexualized language or imagery, and sexual attention or advances of any kind
- \* Trolling, insulting or derogatory comments, and personal or political attacks
- \* Public or private harassment
- \* Publishing others' private information, such as a physical or email address, without their explicit permission
- \* Other conduct which could reasonably be considered inappropriate in a professional setting

### ## Enforcement Responsibilities

Community leaders are responsible for clarifying and enforcing our standards of acceptable behavior and will take appropriate and fair corrective action in response to any behavior that they deem inappropriate, threatening, offensive, or harmful.

Community leaders have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, and will communicate reasons for moderation decisions when appropriate.

### ## Scope

This Code of Conduct applies within all community spaces, and also applies when an individual is officially representing the community in public spaces. Examples of representing our community include using an official e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event.

## ## Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported to the project lead.

All complaints will be reviewed and investigated promptly and fairly.

All community leaders are obligated to respect the privacy and security of the reporter of any incident.

## ## Enforcement Guidelines

Community leaders will follow these Community Impact Guidelines in determining the consequences for any action they deem in violation of this Code of Conduct:

### ###

#### 1. Correction

**\*\*Community Impact\*\***: Use of inappropriate language or other behavior deemed unprofessional or unwelcome in the community.

**\*\*Consequence\*\***: A private, written warning from community leaders, providing clarity around the nature of the violation and an explanation of why the behavior was inappropriate. A public apology may be requested.

#### ### 2. Warning

**\*\*Community Impact\*\***: A violation through a single incident or series of actions.

**\*\*Consequence\*\***: A warning with consequences for continued behavior. No interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, for a specified period of time. This includes avoiding interactions in community spaces as well as external channels like social media. Violating these terms may lead to a temporary or permanent ban.

#### ### 3. Temporary Ban

**\*\*Community Impact\*\***: A serious violation of community standards, including sustained inappropriate behavior.

**\*\*Consequence\*\***: A temporary ban from any sort of interaction or public communication with the community for a specified period of time. No public or private interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, is allowed during this period. Violating these terms may lead to a permanent ban.

#### ### 4. Permanent Ban

**\*\*Community Impact\*\***: Demonstrating a pattern of violation of community standards, including sustained inappropriate behavior, harassment of an individual, or aggression toward or disparagement of classes of individuals.

**\*\*Consequence\*\***: A permanent ban from any sort of public interaction within the community.

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Found in path(s):

\* /future-develop-zip/future-develop/CONDUCT.md

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

Package: dummy

Version: 0.1

Title: A Dummy Package

Description: A package placeholder to trick 'usethis' to stop at the folder where this DESCRIPTION file lives rather than traversing higher up in the directory structure. This protects against bugs such as the one described in <https://github.com/r-lib/lifecycle/issues/52>.

Authors@R: person("Dummy", "Dummyson", role="aut", email = "dummy@dummy.org")

License: GPL (>= 3)

Imports:

lifecycle

RdMacros: lifecycle

Found in path(s):

\* /future-develop-zip/future-develop/revdep/DESCRIPTION

# 1.321 heimdall 1.0.0-000

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

```
@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

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

```
@heading Kungliga Tekniska Hgskolan
```

```
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@verbatim
```

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GSS-API mechlue layer.

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@table @asis

@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM

credential cache.

@item HDB LDAP backend.

@end table

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in  
libcrypto

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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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D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.

Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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## 1.323 zstd 1.16.3

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ISO C9x compliant stdint.h for Microsoft Visual Studio

Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124

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## 1.324 stunnel 5.57

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```

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```

```
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Ty Coon, President of Vice
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## 1.328 fpconst 0.7.2

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Found in path(s):

\* /fpconst-zip/fpconst/fpconst.py

\* /fpconst-zip/fpconst/build/lib/fpconst.py

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-----  
fpconst: A Python module for handling IEEE 754 floating point special values  
-----

Author: Gregory R. Warnes <Gregory.R.Warnes@Pfizer.com>

Date: 2005-02-24

Version: 0.7.2

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-----

This module provides 'fpconst' a reference implementation of Python Enhancement Protocol (PEP) 754, "IEEE 754 Floating Point Special Values". See the file pep-0754.txt or <http://www.python.org/peps/pep-0754.html> for the text of PEP 754.

#### INSTALLATION

This is a standard Python source package. Consequently, simply unpack the source distribution, change into the directory, and run

\$ Python setup.py install

## DOCUMENTATION

See the text of PEP  
754 at <http://www.python.org/peps/pep-0754.html>  
or the contents of the file pep-0754.txt

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\* /fpconst-zip/fpconst/README

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Metadata-Version: 1.0

Name: fpconst

Version: 0.7.2

Summary: Utilities for handling IEEE 754 floating point special values

Home-page: <http://www.analytics.washington.edu/statcomp/projects/rzope/fpconst/>

Author: Gregory Warnes

Author-email: [Gregory.R.Warnes@Pfizer.com](mailto:Gregory.R.Warnes@Pfizer.com)

License: UNKNOWN

Description: Utilities for handling IEEE 754 floating point special values

This python module implements constants and functions for working with  
IEEE754 double-precision special values. It provides constants for  
Not-a-Number (NaN), Positive Infinity (PosInf), and Negative Infinity  
(NegInf), as well as functions to test for these values.

The code is implemented in pure python by taking advantage of the  
'struct' standard module. Care has been taken to generate proper  
results on both big-endian and little-endian machines. Some efficiency  
could be gained by translating  
the core routines into C.

See <http://babbage.cs.qc.edu/courses/cs341/IEEE-754references.html>

for reference material on the IEEE 754 floating point standard.

Further information on this package is available at  
<<http://www.analytics.washington.edu/statcomp/projects/rzope/fpconst/>>.

-----  
Author: Gregory R. Warnes <Gregory.R.Warnes@Pfizer.com>  
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-----  
"""

```
from distutils.core import setup
```

```
url="http://www.analytics.washington.edu/statcomp/projects/rzope/fpconst/"
```

```
import
```

```
fpconst
```

```
setup(name="fpconst",  
      version=fpconst.__version__,  
      description="Utilities for handling IEEE 754 floating point special values",  
      author="Gregory Warnes",  
      author_email="Gregory.R.Warnes@Pfizer.com",  
      url = url,  
      long_description=fpconst.__doc__,  
      py_modules=['fpconst']  
    )
```

Found in path(s):

\* /fpconst-zip/fpconst/setup.py

## 1.329 pyrex 0.9.5.1a

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scene.ico | Crystal  
NUMPY{'descr': [('date', 'O8'), ('open', '<f8'), ('high', '<f8'), ('low', '<f8'), ('close', '<f8'), ('volume', '<i8'), ('adj\_close', '<f8')], 'fortran\_order': False, 'shape': (1047,)}, }  
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qnumpy.core.records  
recarray  
qKUbRq(KMnumpy

dtype  
qcnumpy.core.records  
record  
qKKRq(KU|N(UdateqUopenqUhighq Ulowq  
UcloseqUvolumeqU adj\_closeq  
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=pJG@f#  
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=G@ }l  
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@ }  
=qG@ }zHJ6G@ }zHtrm(hURrnG@ }aRG@ }p  
=G@ }zGG@ }qRJE<G@ }qRtro(hURrpG@ }=p  
G@ }QG@ }'QG@ }4QJD.G@ }4Qtrq(hURrrG@ }"zGG@ }BQG@ }zHG@ },\),JT,G@ },\),trs(hU  
RrtG@ }"ffffG@ } {zHG@ |zGG@ }TJZ;G@ }Ttru(hU  
RrvG@ }0  
=qG@ }W  
=pG@ |QG@ |QJ?8G@ |Qtrw(hURrxG@ |GzG@ }0G@ |G@ }+  
=pJd,G@ }+  
=ptry(hURrzG@ }zHG@ }8(\G@ |G@ |zGJ;G@ |zGtr{(hURrlG@ |\((G@ |  
=qG@ |\((G@ |J>G@ |tr}(hURr~G@ |G@ }=p  
G@ |QG@ }(\JXdG@ }(\tr(hURrG@ }(\G@ }QG@ }l)G@ }o(JxGG@ }o(\tr(hURrG@ }zGG@ }33333G@ }G@ }eQJ  
e8G@ }eQtr(hURrG@ }XzGG@ }33333G@ }+QG@ }iJG@ }itr(hURrG@ }G@ }(\G@ }G@ }(\J:G@ }(\tr(hURrG@ ~  
QG@ ~6(\G@ }G@ }QJh6MG@ }Qtr(hURrG@ }ffffG@ }33333G@ }xG@ }GzJ  
?G@ }Gztr(hURrG@ }33333G@ ~O33333G@ }QG@ ~8QJQG@ ~8Qtr(hURrG@ ~PG@ ~G@ ~@G@ ~q(\JOG@ ~q(\  
tr(hURrG@ ~HG@ ~p  
=G@ ~0G@ )JnG@ )tr(hURrG@ H)\G@ zGG@ )G@ \(\J,G@ \(\tr(hURrG@ PG@ QG@ G@ {G@ FffffJ:IG@ Ffffftr(hUR

rG@(\G@(\G@p  
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G@#(\G@gRG@ G@g  
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G@'  
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JdG@ }=p  
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=G@ }33333G@ }LJZG@ }Ltr(hURrG@ }+QG@~G@ }G@ }(J,GG@ }(\tr(hURrG@~(\G@zHG@ }G@~QJG@~

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=pG@~zGG@~G@~zHJ0G@~zHtr(hURrG@~p  
=G@~p  
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G@}=\(\tr(hURrG@}ARG@}\(\G@|ffffG@|J%G@|tr(hURrG@}9p  
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=J3G@~ep  
=tr(hURrG@~G@~@G@}\(\G@}RJ(S\*G@}Rtre((hURrG@~ffffG@~G@}  
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=tr(hURrG@`G@zGG@  
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P6

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tab\_feature\_disabled.png | Enthought  
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tab\_feature\_no\_drop.png | OOo  
tab\_feature\_normal.png | OOo  
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\_reconstruct

numpy.core.records

recarray

numpy.core.records

dtype

numpy.core.records

record

numpy.core.records

numpy.core.records

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numpy.core.records

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=qtq'(hU Rq(G@<QG@=G@<QG@<QJiG@  
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,G@"\{tr(hURrG@DG@EG@D@G@EJ@G@#33333tr(hURrG@EG@E@G@D@G@D@JAG@"Qtr(hURrG@  
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RrDG@C@G@EG@@P

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=p

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=p

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=trg(hU

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=p

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=ptr(hU RrG@C G@CG@BG@C`JpG@!Gztr(hU RrG@C`G@DG@BG@D@JG@"zGtr(hU RrG@DG@DG@D  
=qG@DJ0PG@"Qtr (hU  
Rr  
G@D G@DG@DG@DJAG@"Qtr(hU RrG@DG@E0  
=qG@DG@EJ`G@#aGztr  
(hU RrG@EG@E`G@DG@D  
=qJUZG@#333333tr(hU RrG@DG@E`G@D  
=qG@E J`CG@#tr(hU RrG@EG@E G@DG@DJL2G@#B)(tr(hU RrG@DG@E G@D  
=qG@DJ`08G@##  
=ptr(hU RrG@DG@EG@DG@E`J01G@#Qtr(hU RrG@EG@FG@E`G@FJfOG@\$Ltr(hU RrG@EG@F  
G@EG@EJ7G@\$zGtr(hU RrG@EG@FG@E@G@E`J/G@#Qtr(hU RrG@E@G@EG@E@G@E  
=qJXG@\$Qtr(hU Rr G@EG@F  
=qG@EG@EJP^.G@\$zGtr!(hU Rr"G@EG@F  
G@EG@FJ:G@\$Ltr#(hU Rr\$G@FG@FG@EG@EJ02G@#(\tr%(hU  
Rr&G@EG@EG@EG@E@J1G@#tr'(hU  
Rr(G@E G@E`G@D  
=qG@DJ01G@##  
=ptr(hU  
Rr\*G@DG@DG@D@G@Dp  
=qJ#CG@"(\tr+(hU  
Rr.G@D@G@Dp  
=qG@CG@CJp[G@"W  
=ptr-(hU  
Rr.G@CG@CG@C0  
=qG@CJG@"W

=ptr/(hU

Rr0G@CG@CG@BG@C@J@FG@!\(tr1(hU  
Rr2G@C G@CG@C G@CJDjG@"tr3(hU  
Rr4G@C@G@CG@CG@C`JHG@!Gztr5(hU

Rr6G@C@G@CG@C@G@CJ0YG@"tr7(hU  
Rr8G@CG@CG@C  
=qG@C`JpUG@!Gztr9(hU  
Rr:G@C@G@CG@C G@C@J H3G@!\(tr;(hU  
Rr<G@CG@CG@C G@C  
=qJMG@"\()tr=(hU  
Rr>G@CG@D`G@CG@DJ0VG@"u\()tr?(hU  
Rr@G@DG@D

=qG@DG@DJ ^G@##  
=ptrA(hU  
RrBG@DG@DG@D`G@DJ{CG@"QtrC(hU  
RrDG@DG@DG@C  
=qG@DJIG@"u\()trE(hU  
RrFG@D G@D G@CG@C

=qJq.G@"ffffftrG(hU  
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=qJ0KG@!#

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\G@!LtrY(hURrZG@BG@C`G@B

=qG@C@JTG@!\()tr[(hU Rr\G@C G@C  
=qG@CG@CJmG@"tr](hU  
Rr^G@CG@CG@CG@CJ6G@"8Qtr\_(hURr`G@CG@C  
=qG@C@G@C@J=;G@!\()tra(hURrbG@C`G@CG@C  
G@Cp

=qJl.G@!  
=qtrc(hURrdG@CG@CG@C`G@CJp+G@"tre(hURrfG@CG@CG@BG@CJPG@!=p  
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=ptri(hURrjG@C@G@C@G@CG@CJG@!=p  
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=qtrm(hURrnG@B@G@Bp  
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=qJfG@!\()trq(hURrG@B G@B`G@BG@B@Jp\G@ Gztrs(hURrtG@B@G@B`G@BG@B@JLG@  
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=qJ[G@!ffffftry(hURrzG@BG@CG@BG@C`JsG@!Qtr{(hURrlG@C G@C  
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=qJ o G@"tr(hU RrG@CG@CG@C`G@C  
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RrG@C@G@C`G@C  
G@C`J`BG@!Qtr(hURrG@C@G@DG@C@G@CJiG@"aGztr(hURrG@DG@D@G@CG@CJ=G@"GzHtr(hUR  
rG@CG@D@G@CG@D  
=qJGdG@"(\tr(hURrG@D G@DG@DG@D`J`G@"(\tr(hURrG@DG@DG@DP  
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@D  
=qG@DG@D  
=qJG@#Qtr(hURrG@DG@DG@D@G@D@J G@"p  
=tr(hURrG@D@G@D`G@CG@D J0G@"Qtr(hURrG@D G@D`G@D G@D@J E@G@"p  
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G@D J,G@"Qtr(hURrG@D G@D@G@DG@D0  
=qJ6G@"zGtr(hURrG@D`G@E  
=qG@D@G@EJG@#kQtr(hURrG@EG@EG@DG@E JG@#=#p  
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=qJpdIG@#Qtr(hU RrG@EG@E  
=qG@E G@EJ+G@#fffftr(hU  
RrG@E@G@Ep  
=qG@DG@EP  
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=qJG@"zGtr(hURrG@D`G@D  
=qG@CG@CJ  
G@"aGztr(hURrG@D@G@DG@DG@D@JG@"p  
=tr(hURrG@D@G@DG@D G@DJp^G@"(\tr(hURrG@D`G@DG@D`G@DJ  
sbG@"(\tr(hURrG@DG@DG@D`G@D  
=qJ`yG@#B)(tr(hURrG@DG@EG@DG@DJ@y<G@#33333tr(hURrG@D`G@E  
=qG@DP  
=qG@DJG@#QRtr(hURrG@C G@CG@B G@B  
=qJNG@!fffftr(hURrG@B  
=qG@CG@BG@B  
=qJ?G@!Ltr(hURrG@BG@BG@B`G@BJG@!u)(tr(hURrG@BG@C  
=qG@B  
=qG@CJ G@"(\tr(hURrG@CG@D G@CG@CJpKG@"aGztr(hURrG@DG@D  
G@CG@CJaG@"(\tr(hURrG@CG@CG@C G@C@J@?G@!Rtr(hURrG@C G@CG@C G@CJ@)ZG@"  
=p  
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RrG@C G@C G@BG@BJpG@!=p  
=tr(hU  
RrG@B`G@BG@B`G@BJpG@!Qtr(hURrG@Bp  
=qG@BG@AG@AJG@ =p  
tr(hURrG@AG@B G@AG@B

J0>G@ \(\tr(hURrG@B G@BG@BG@B0  
=qJprG@ Rtr(hURrG@B G@BG@B G@B`J@?G@!  
=p  
tr(hURrG@Bp  
=qG@BG@B`G@BJgG@ !fffftr(hURrG@BG@BG@B@G@B`J0%G@!  
=p  
tr(hURrG@B@G@BG@B G@B`J04G@!  
=p  
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G@A`G@AJ G@ =p  
=tr(hURrG@AG@AG@AG@A`JfG@ Qtr(hURrG@AG@A  
=qG@A@G@AJ[G@ u(\tr(hURrG@AG@BG@AG@AJSG@ zGtr(hURrG@A  
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Rr G@A@G@AG@A G@AJ088G@ =p  
=tr (hU  
Rr G@AG@AG@A`G@AJpWGG@ =p  
=tr (hURr G@AG@AG@Ap  
=qG@AJsXG@ \(\tr (hURr G@AG@AG@A`G@AJ81G@ =p  
=tr (hURr  
G@AG@AG@A@G@AJhG@ \(\tr (hURr G@A@G@AG@AG@Ap  
=qJPyG@ .zGtr  
(hURr G@AG@AG@A@G@Ap  
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=qJFG@ .zGtr (hURr G@A G@A`G@ @G@ @  
=qJ  
OG@p  
=qtr (hURr G@AG@A@G@ @G@A0  
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G@AG@A@G@AG@A J0(G@(\tr (hURr G@A G@AG@AG@A`J9G@ Qtr (hURr G@AG@AG@A`G@A  
=qJ-eG@ Qtr (hURr G@AG@B G@A`G@AJZG@ =p  
=tr! (hURr" G@A@G@Ap  
=qG@@  
=qG@A@J/?G@  
tr# (hURr\$ G@A@G@AG@A G@AJ`AG@ =p  
=tr% (hURr& G@A`G@B  
=qG@A@G@BJPhUG@ 33333tr' (hURr( G@BG@BG@BG@B  
=qJ@G@!W  
=ptr) (hU  
Rr\* G@BG@CG@B`G@BJJG@!(\tr+ (hURr, G@BG@CG@BG@BJ0%PG@!Qtr- (hURr. G@C G@CG@B  
=qG@C@JpG@!(\tr/ (hU  
Rr0 G@C`G@CG@C G@C@JcG@!(\tr1 (hURr2 G@CG@CG@C G@C`JECG@!G{tr3 (hURr4  
G@C@G@CG@CG@CJjLG@"33333tr5 (hURr6 G@CG@D@G@CG@D  
=qJ2G@"Qtr7 (hURr8 G@DG@D  
=qG@CG@Dp  
=qJ+G@"(\tr9 (hURr: G@D`G@DG@D G@D`J`.bG@"fffftr; (hURr< G@D@G@Dp  
=qG@CG@D  
=qJ?G@"Qtr= (hURr> G@DG@D G@CG@D

=qJ<G@"Qtr? (hURr@ G@DG@D@G@CG@DJ?G@"(trA (hURrB G@DG@D G@C  
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=qtrC (hURrD G@CG@DG@CG@C  
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G@EG@EG@EG@E@J0G@#QtrU (hU  
RrV G@EG@EG@E@G@EJ`G@\$ (trW (hURrX G@EG@F G@EG@E  
=qJP=G@\$ (\trY (hURrZ G@F@G@FG@FG@FJ G@\$Gztr[ (hURr\ G@F`G@G G@F`G@GJpG@%W  
=ptr] (hURr^ G@GG@G  
G@FG@F  
=qJ0|G@%\ (tr\_ (hURr` G@FG@FG@FG@FJG@%tra (hURrb G@FG@FG@F`G@F`JV sG@%\ (trc (hURrd  
G@F`G@G G@F`G@FJ\_G@%8Qtre (hURrf G@FG@G G@FG@GJgG@%aGztrg (hURrh  
G@GG@GG@FG@FJLIG@%\ ()tri (hURrj G@FG@GG@FG@GJnG@&333333trk (hURrl G@GG@HG@GG@H  
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tro (hURrp G@H G@HG@G  
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CG@&zHtrw (hURrx G@H`G@HG@G@G@GJCG@%\ (try (hURrz G@G`G@GG@G G@G`JP.OG@%p  
=tr{ (hURr| G@G`G@H@G@G`G@H`J`G@&p  
=qtr} (hURr~ G@H@G@HG@GG@G  
=qJ0UaG@&#  
=ptr (hU Rr G@GG@GG@G@G@GJp3G@%\ (tr (hURr G@G`G@GG@G G@GJp",G@&zGtr (hU  
Rr G@GG@H`G@GG@H@J}G@&=p  
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Rr G@DG@DG@CG@DP  
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=qtr (hURr G@D`G@DG@CG@D`JGG@"  
=qtr (hURr G@D`G@D`G@C`G@CJ,G@"=p  
=tr (hURr G@CG@D`G@CG@D@J|G@"Rtr (hURr G@D`G@DG@CG@DJ G@"tr (hURr  
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=tr (hURr G@CG@CG@CG@C`J@zrG@"Qtr (hURr G@C G@C@G@BG@C JPG@!zHtr (hURr G@C  
G@CG@CG@CJ0^G@"=p  
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=qJ>LG@"=p

tr (hURr G@CG@D@G@CG@D@Jq7G@"Rtr (hURr G@D@G@DG@D@G@DJb^G@#.zGtr (hURr  
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Rr G@FG@FG@E`G@EJ`SG@\$tr (hURr G@FG@FG@DG@D  
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=tr (hURr G@DG@DG@DG@D0  
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=tr (hURr G@F@G@FG@F G@F@JG@\$p  
=tr (hU Rr G@F@G@F`G@F G@FP  
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Rr  
G@F`G@GG@F@G@FJ5G@%QRtr  
(hU Rr  
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Rr  
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(hU Rr  
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(hU Rr  
G@F G@F@G@EG@EJ`,G@\$)\tr  
(hU Rr  
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(hU Rr  
G@FG@GG@F G@F`JpmG@\$)\tr  
(hU Rr

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(hU  
Rr(  
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(hU  
  
Rr\*  
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=qG@H@G@HJG@^(tr+  
(hU  
Rr,  
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=qJ`UG@&zHtr-

(hU  
Rr.  
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(hU

Rr0  
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(hU

Rr2  
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(hU

Rr4  
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(hU

Rr6  
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(hU

Rr8  
G@H G@HG@H G@H`JJ=G@&Qtr9  
(hU

Rr:  
G@GG@HG@GG@HJG@&\\tr;  
(hU

Rr<  
G@HG@H G@G G@G`J0BG@%zHtr=  
(hU

Rr>  
G@G G@H@G@FG@G  
=qJ0 vG@&333333tr?  
(hU

Rr@  
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(hU

RrB  
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(hU

RrD  
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(hU

RrF  
G@FG@GG@FG@FJ0/G@%QRtrG  
(hU

RrH  
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(hURrJ

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=qJ!G@%trK  
(hURrL

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=qJ7YG@(tr-(hURr.G@IG@IG@I  
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=tr1(hURr2G@IG@JG@IG@I  
=qJ#G@)  
=p  
tr3(hURr4G@J  
G@K G@JG@J  
=qJD]G@)\(tr5(hURr6G@JG@KG@JG@K@J;G@\*Ltr7(hURr8G@K@G@K`G@JG@JJ`&G@)  
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G@  
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=p  
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=qJ5G@ Rtr(hU RrG@A G@A G@@  
=qG@@  
=qJOG@ 3333tr(hU RrG@@  
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=qG@@QJHG@ Qtr(hU RrG@@  
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=qJ ;G@ 3333tr(hU RrG@AG@A0  
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=qJy,G@ 3333tr(hU RrG@@G@A0  
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RrG@@  
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=ptr(hU  
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=qG@C  
=qG@@  
=qG@B  
=qJG@")tr(hU  
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=G@BG@B  
JNG@!(\tr(hU  
RrG@B  
=qG@BzHG@AG@BJ0G@"=p  
=tr (hU

Rr

G@B  
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=qJZG@#(\)tr(hU  
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=qG@E J@oG@\$Rtr(hU  
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=trS(hURrTG@,B)(G@,G@+G@+GzJrZG@  
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=ptrW(hURrXG@,QG@-QG@+GzG@+GzJG@  
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@\*aGzG@\*QJ  
WG@

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:G@

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G@#  
=qtru (hURrv G@3G@3\(\G@3\(\G@3\J%G@#\(\trw (hURrx G@3\(\G@5G@3\(\G@5  
=qJYG@%333333try (hURrz G@5\(\G@6G@4QG@5JkyG@%\(\tr{ (hURr| G@5G@6G@5p  
=qG@5QJXG@%Qtr} (hURr~ G@4  
=qG@5G@4G@5QJG@%Qtr (hURr G@5QG@5  
=qG@4G@4QJG@\$Qtr (hURr G@4G@4\(\G@3G@40  
=qJ@G@\$333333tr (hURr G@4\)\G@5c  
=pG@4G@5QJ4G@%Qtr (hURr G@4\)\G@4QG@3\(\G@4J0G@\$)\(\tr (hURr G@4\(\G@5\(\G@40  
=qG@4Jh\IG@\$)\(\tr (hU Rr G@4G@4\(\G@2  
=qG@3QJAG@#Qtr (hURr G@3\(\G@4G@2\(\G@3  
=qJxG@#333333tr (hU  
Rr G@3  
=qG@4p  
=qG@3G@3QJH@G@#Qtr (hURr G@30  
=qG@3QG@2G@3JuG@#tr (hURr G@3  
=qG@4\(\G@3  
=qG@4\JG@\$)\(\tr (hURr G@3G@3G@2G@3JG@#tr (hURr G@30  
=qG@3p  
=qG@20  
=qG@2O\JG@"Ltr (hURr G@2@G@3  
=qG@2@G@2QJG@"Gztr (hURr G@3\(\G@3^QG@2G@2\J vG@"tr (hURr  
G@2QG@2QG@2@G@2\JxFG@"tr (hURr G@3\(\G@3

=qG@2)\(G@3J pG@#tr (hURr G@3GzHG@3p  
=qG@2  
=qG@3^QJG@#aGztr (hURr G@3^QG@3p  
=qG@2QG@2@J G@"=p  
=tr (hURr G@1)\(G@2G@10  
=qG@2JG@"\tr (hURr G@2O)\(G@4p  
=qG@2@G@3@JIG@#=#p  
=tr (hURr G@3^QG@4G@3@G@4^QJG@\$aGztr (hURr G@4QG@6)\(G@4  
=qG@5JXG@%tr (hURr G@5O)\(G@5QG@4G@5@JG@%=p  
=tr  
(hURr G@4  
=qG@5QG@4p  
=qG@4)(JoG@\$tr (hU Rr G@4QG@4  
=qG@4G@4@JG@\$=p  
=tr (hURr G@3  
=qG@3QG@2QG@2QJ!G@"Qtr (hU  
Rr G@2QG@3)\(G@20  
=qG@3)\(JXG@#\tr (hURr G@2G@4G@2p  
=qG@4p  
=qJeG@\$p  
=qtr (hURr G@4QG@5^QG@3  
=qG@3  
=qJ} G@#33333tr (hURr G@3G@4O)\(G@2QG@3QJrG@#Qtr (hURr G@3G@4QG@3G@4)\(Jp"G@\$\tr (hURr  
G@4QG@4  
=qG@3  
=qG@3  
=qJHG@#33333tr (hURr G@3zHG@4QG@3^QG@4QJiG@\$Qtr (hURr G@4^QG@5G@40  
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(hURr G@5  
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G@5QG@7s33333G@5G@6zHJ NG@&=#p  
tr (hURr G@6G@6QG@5W  
=pG@6RjX,G@&\tr (hURr G@6  
=pG@6)G@5fffffG@5  
=pJ(G@%tr (hURr G@5)\(G@5fffffG@4!GzG@4=p  
=J(G@\$=p  
=tr (hURr G@3)\(G@4@G@2G@3J@uG@#tr (hURr G@4G@6G@4G@4QJXwG@\$Gztr (hURr G@4G@5  
=p  
G@3fffffG@4  
=pJ  
G@\$tr (hU Rr G@4  
=qG@5W  
=pG@4)\(G@4=p  
JFG@\$=p  
tr (hU  
Rr G@4fffffG@633333G@4zHG@6  
=p  
J?G@&

=p  
tr (hURr G@6G{G@7G@5GzHG@5J`G@%tr (hURr G@5kQG@7QG@5&ffffG@6kQJG@&kQtr (hURr G@6  
=pG@6ffffG@4(\G@5p  
=qJhoG@%p  
=qtr (hURr  
G@5333333G@55(\G@3G@4ffffJhguG@\$fffftr (hURr G@5RG@8zGG@5zGG@6=p  
JXWG@&tr (hURr G@9G@9G@7G@9QJG@)Qtr (hURr G@8zGG@9GzG@8G@9  
=p  
JyG@)  
=p  
tr (hURr G@8W  
=pG@9G@8G@8@J'G@=(=p  
=tr (hURr G@8TzGG@8G@7(\G@8zHJG@(  
=p  
tr (hURr G@85(\G@8(\G@7RG@8QJBG@(Qtr (hURr G@9+QG@:G@8zGG@8  
=qJG@(33333tr (hURr G@9333333G@:J=p  
G@8G@:333333J8G@\*333333tr (hURr G@:33333G@;QG@8QG@9}p  
=J  
G@)zG{tr (hURr G@9h)\G@:G@9333333G@9zGJxG@)  
=qtr (hURr G@:W  
=pG@:33333G@9(\G@:  
=pJG@\*tr (hURr G@9QG@:@G@8G{G@8(\JSG@(\tr (hURr G@8=p  
=G@9G@7(\G@9J)G@)\tr (hURr!G@9QG@9(\G@8  
=pG@8(J@G@(\tr!(hURr!G@9YG@9s33333G@733333G@8RJ@G@(\tr!(hU Rr!G@8#  
=pG@8G@7QG@7G{J  
G@'G{tr!(hU  
Rr!G@85(\G@8G@633333G@7JzG@'tr!(hURr!G@7(\G@7}p  
=G@6(\G@6JnG@&(\tr !(hURr  
!G@6  
=pG@7zGG@6G@7J=p  
JG@'Ltr!(hURr!G@7^QG@9G@7  
=p  
G@7.zGJ0+G@'.zGtr  
!(hURr!G@7B(\G@8G@6G@8JG@(\tr!(hURr!G@8:G{G@8TzGG@7@G@7JG@'=p  
tr!(hURr!G@7(\G@7  
=pG@7QG@7zHJV G@'=p  
tr!(hURr!G@7GzG@7)\G@7G@7(\JH9G@'\tr!(hURr!G@8G@8!GzG@7ffffG@7JxG@'tr!(hURr!G@7G@7G  
@6(\G@7:G{J'G@'8Qtr!(hURr!G@7J=p  
G@7LG@6QG@7333333JG@'333333tr!(hURr!G@7333333G@7J=p  
G@6G@6(\JVG@&(\tr!(hURr!G@6QRG@6G@4(\G@5xQJ(1G@%u(\tr!(hURr  
!G@4(\G@4(\G@3LG@3zHJ`yG@#zHtr!!(hURr"!G@3G@4=p  
=G@3}p  
=G@333333J[G@#(\tr#!(hURr!G@4!GzG@5  
=pG@3G{G@4  
=pJG@\$Gztr%!(hURr&!G@5zGG@5(\G@4u(\G@4)JxG@\$)tr!(hURr(!G@4G@5G@4YG@4  
=qJG@\$  
=qtr!(hURr\*!G@4zGG@4zGG@4TzGG@4G{J(yG@\$Qtr+!(hURr,!G@4(\G@533333G@4s33333G@5)J5G@  
%)tr-(hURr.!G@5ffffG@5ffffG@4(\G@5QRJ8G@%QRtr!(hURr0!G@5G@5RG@333333G@4

=p  
J7G@\$  
=p  
tr1!(hURr2!G@3QG@4  
=qG@3(G@4O)(JG@\$Ltr3!(hU  
Rr4!G@5kQG@5G{G@4(G@4xQJG@\$u(tr5!(hURr6!G@4  
=p  
G@4s33333G@3QG@3GzJ  
G@#Gztr7!(hURr8!G@4G@4G@3YG@4p  
=qJ8G@\$p  
=qtr9!(hURr:!G@4h)G@4G@4G@4TzGJG@\$QRtr;!(hURr<!G@4G@5fffffG@4(G@40  
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=pG@7QG@7(G@7JxG@'(trG!(hURrH!G@7zGG@8G@6G@7W  
=pJG@'W  
=ptrI!(hURrJ!G@7G@7)G@6  
=qG@7=p  
J@G@'=p  
trK!(hURrL!G@7)G@9G@7333333G@7@JG@'=p  
=trM!(hURrN!G@7  
=pG@8:G{G@7#  
=pG@7fffffJ]]G@'ffffftrO!(hURrP!G@7(G@8.zGG@7G@7  
=pJT=G@'  
=ptrQ!(hURrR!G@7G@7QG@7(G@70  
=qJRG@'333333trS!(hURrT!G@6(G@6(G@5QG@6zHJ(G@&  
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RrX!G@633333G@7RG@4  
=pG@5#  
=pJgG@%#  
=ptrY!(hURrZ!G@5zHG@6G@5G@6=p  
JgG@&=p  
tr[!(hURr\!G@7LG@8(G@7LG@8(\JP  
OG@(\tr]!(hU  
Rr^!G@8!GzG@9(G@7  
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aG@)trc!(hURrd!G@5zHG@6zHG@4kQG@4=p  
JpkG@\$tre!(hURrf!G@5:G{G@5kQG@3G@3(JHG@#(trg!(hURrh!G@333333G@4(G@3}p  
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=pG@4G@3(G@3=p  
JG@#=p  
trk!(hURrl!G@3c  
=pG@3QG@2G{G@3  
=pJG@#trm!(hURrn!G@3QG@3LG@1QG@2xQJG@"u(tro!(hURrp!G@2zG{G@2G@1G@2  
=pJp\*G@"trq!(hURrr!G@2G@3@G@2G@2(JG@"(trs!(hURrt!G@3QG@3(G@2(G@2zGJG@"

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{!(hURr!G@3  
=pG@3fffffG@3G@3J@deG@#tr}!(hURr~!G@3  
=p  
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=tr!(hURr!G@3B\G@333333G@2=p  
G@2fffffJ  
G@"fffftr!(hU Rr!G@2\G@3&fffffG@2QG@3JZmG@#  
=p  
tr!(hU  
Rr!G@3  
=p  
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=pG@3QJeG@#Qtr!(hU  
Rr!G@3G@3TzGG@2\G@3  
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=qtr!(hURr!G@2EQG@2G@1QG@2fffffJhG@"  
=ptr!(hURr!G@2G@2s33333G@1p  
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=pG@2#  
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G@GzHtr!(hU Rr!G@.G@/G@.fffffG@/QJxG@  
=p  
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=p  
tr!(hU

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Rr!G@-ffffG@.QG@-)G@-(J:tG@\\tr!(hU  
Rr!G@.33333G@0@G@-G{G@^(J(G@\\tr!(hU  
Rr!G@.G@0&ffffG@-G{G@0#  
=pJG@ #  
=ptr!(hU  
Rr!G@/#  
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Rr!G@0G@0333333G@/B(G@0J ^G@ tr!(hU  
  
Rr!G@0G@0G@/ffffG@0RJ(G@ Rtr!(hU  
Rr!G@0QG@1p  
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=JG@!p  
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Rr!G@2  
=pG@2333333G@1QG@2(JHnG@"Qtr!(hU  
Rr!G@2W  
=pG@2h)G@0(G@0p  
=J(G@ G{tr!(hU  
Rr!G@1J=p  
G@2:G{G@1J=p  
G@2JMG@"tr!(hU  
Rr!G@1  
=qG@2fffffG@1GzG@2LJZG@"Ltr!(hU  
Rr!G@25(G@3RG@2  
=pG@3QJG@#Qtr!(hU  
Rr!G@3QG@3kQG@1QG@2#  
=pJHuG@"#  
=ptr!(hU  
Rr!G@2(G@3  
=pG@1G@233333JG@"\\tr!(hU  
Rr!G@2p  
=qG@3@G@2(\\)G@30  
=qJG@#333333tr!(hU  
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Rr!G@1G{G@2fffffG@1p  
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=pG@2RG@2\JtG@"33333tr!(hU  
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=pG@2\G@3^QJozG@#aGztr"(hURr"G@3  
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@3EQG@3J=p  
G@2fffffG@2QJ)G@"(tr "(hURr  
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tr  
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=pJ  
G@#  
=ptr"(hURr"G@3  
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\G@4zHJG@\$=p  
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J0nG@&=p  
tr%"(hU  
Rr&"G@6J=p  
G@6p  
=G@6:G{G@6=p  
J\G@&=p  
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Rr,"G@5}p  
=G@5G@4G@5JkG@%tr-"(hURr."G@4G{G@4zGG@4  
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G@&p  
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=G@7  
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=pG@5  
=pG@4G@5JG@%  
=p  
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@\$zHtrY"(hURrZ"G@5(G@6p  
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=p  
G@5  
=pG@7QJhG@'Qtra"(hURrb"G@6)G@7(G@6fffffG@75(JhwG@'333333trc"(hURrd"G@6  
=pG@7kQG@6)G@7@JPeG@'=p  
=tre"(hURrf"G@7fffffG@7G@6QG@7EQJeG@'GzHtrg"(hURrh"G@78QG@7=p  
G@6G@7RJXG@\"(tri"(hURrj"G@7RG@8#  
=pG@6  
=qG@8  
=pJG@(trk"(hURrl"G@8(G@8G{G@8(G@8QJXHG@(Qtrm"(hURrn"G@8W  
=pG@8(G@8W  
=pG@8h)J0G@(ffffftro"(hURrp"G@8QRG@9QG@8333333G@9YJG@)\(trq"(hURrr"G@9  
=pG@9G{G@9zGG@9s33333JG@)u(trs"(hURrt"G@9G@9G{G@8&fffffG@8QJ0EG@(zGtru"(hURrv"G@8fff  
ffG@9J=p  
G@8zGG@8LJG@(Ltrw"(hURrx"G@8fffffG@8  
=pG@7^QG@8zHJG@(  
=p  
try"(hURrz"G@7zGG@9G@7p  
=G@8G{J8G@(G{tr{"(hURr|"G@8)G@9  
=p  
G@8s33333G@8(J9zG@(33333tr)"(hU  
Rr~"G@8G{G@9=p  
=G@8fffffG@9(JpG@)Qtr"(hURr"G@9G@9:G{G@8aGzG@8JG@(@tr"(hURr"G@8zHG@8G{G@7G@7fffffJp  
G@'ffffftr"(hURr"G@7(G@7QG@6zG{G@6QJG@&Qtr"(hURr"G@6QG@7333333G@6YG@7!GzJG@'Qtr"(h  
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=JG@&p  
=tr"(hURr"G@6G@8QG@6(\G@7(J8G@'tr"(hURr"G@7)G@8^QG@7@G@7QJG@'zGtr"(hURr"G@7  
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=qG@5(Jhd1G@%\tr"(hURr"G@6&fffffG@6  
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G@(aGztr"(hURr"G@8p  
=G@9  
=pG@8LG@8)JG@(\tr"(hURr"G@8G@9#  
=pG@8G@9(J4G@)\tr"(hURr"G@8(G@8p  
=G@8G@8QJrG@(Qtr"(hU  
Rr"G@8^QG@8G@8&fffffG@8}p

=JhmG@(zG{tr"(hURr"G@8LG@8G@7QG@8nzGJjvG@(p  
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=JHG@(p  
=tr"(hURr"G@8  
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=pG@7=p  
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G@(\(tr"(hURr"G@8G@8)p  
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=JG@(p  
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=G@9QG@9p  
=JNG@)p  
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@9)p  
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=pG@8zGG@8:G{G@8zHJG@=(p  
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G@8zHG@8  
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=tr"(hURr"G@8LG@8G@7zGG@7QJLG@'zHtr"(hURr"G@7\((G@8W  
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G@8J=p  
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Rr"G@7QG@8

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=qJG@'  
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=tr#(hURr#G@8zGG@9G@7fffffG@7u(J  
G@'u(tr#(hURr#G@7^QG@8^QG@7QRG@8QRJG@(QRtr#(hURr#G@8s33333G@9=p  
=G@8RG@9.zGJ`NG@).zGtr # (hURr  
#G@8p  
=G@8p  
=G@7(G@8&fffffJZG@(#  
=ptr#(hURr#G@7  
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#(hURr#G@7QG@8p  
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=qG@4zGG@5fffffJMG@%ffffftr#(hU  
Rr#G@5zG{G@5  
=pG@5W  
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#G@5  
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=qG@4  
=pJ G@\$tr##(hU  
Rr\$#G@4QG@4G@3aGzG@3=p  
JG@#=p  
tr%#(hURr&#G@3=p  
=G@4(\G@2(\G@4JXG@\$tr'#(hURr(#G@4=p  
=G@4GzG@3G@4=p  
JG@\$=p  
tr#(hURr\*#G@4kQG@4  
=pG@3G{G@4&fffffJG@\$#  
=ptr+#(hURr,#G@1^QG@1G@0GzG@1QJG@!Qtr-  
#(hURr.#G@1+QG@1G@0G@1(\J &G@!Qtr/#(hURr0#G@0QG@1}p  
=G@0=p  
G@0J@G@  
(tr1#(hURr2#G@0QG@1G{G@033333G@1EQJbG@!GzHtr3#(hURr4#G@1fffffG@1zGG@0(\G@1#  
=pJP\$G@!#  
=ptr5#(hURr6#G@0G@1J=p  
G@^\(G@0J0G@ =p  
tr7#(hURr8#G@0=p

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=qtr?#(hURr@#G@0\G@1zGG@0G@1JhvlG@!=p  
trA#(hURrB#G@1\G@2G@1\G@2p  
=JXG@"p  
=trC#(hURrD#G@2QG@2\G@1zGG@2\JsG@"QtrE#(hU RrF#G@2  
=pG@2J=p  
G@1u\G@1zHJ{G@!=p  
trG#(hU  
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1\G@1(\J xG@!\(trQ#(hURrR#G@0!GzG@0333333G@.aGzG@/B\JcG@GzHtrS#(hURrT#G@/G@/QG@-  
G@-G{J0G@\trU#(hURrV#G@-fffffG@.W  
=pG@-\G@-QJG@QtrW#(hURrX#G@-G@.aGzG@-8QG@-  
=pJG@  
=ptrY#(hURrZ#G@-G@.B\G@,GzG@,  
=qJHG@\tr[#(hURr\#G@,\)G@.p  
=qG@.G@.fffffJpG@ffffftr]#(hURr^#G@-\G@-fffffG@,QG@,QJ8:G@Qtr\_#(hURr`#G@,QG@-  
\G@+G@,zGJ0qG@zGtra#(hURrb#G@,\G@.333333G@,p  
=G@.  
=p  
J`G@  
=p  
trc#(hURrd#G@-33333G@/QG@-QG@.\J  
\_G@Gztre#(hURrf#G@.G@.  
=pG@-G@.QJPQG@Qtrg#(hURrh#G@.8QG@.  
=pG@-u\G@-Jh\G@tri#(hURrj#G@-zG{G@.G@,G@,ffffJxaG@Gztrk#(hURrl#G@-QG@-fffffG@+  
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zG{JAG@zG{tro#(hURrp#G@..zGG@.QG@,33333G@.\JG@  
=p  
trq#(hURrr#G@-p  
G@.\G@-p  
G@.J0{G@trs#(hU Rrt#G@.G@.G@-G@.J8pG@tru#(hURrv#G@-G@.  
=p  
G@-aGzG@-G{JaG@\trw#(hU  
Rrx#G@-G@.kQG@-G@-.zGJ8G@333333try#(hURrz#G@-W  
=pG@.33333G@-zGG@.W  
=pJ{G@\tr{#(hURr|#G@.G@/G@.QG@/8QJG@333333tr}#(hURr~#G@.ffffG@0G@.\G@/QJG@  
=ptr#(hURr#G@/\G@0@G@/p  
=qG@^(JvG@\tr#(hURr#G@/  
=qG@0  
=pG@/\G@/RJeG@tr#(hURr#G@0\G@0=p  
=G@.ffffG@0QJPnG@ Qtr#(hURr#G@0333333G@0@G@/QRG@/  
=qJG@\tr#(hURr#G@/G@/\G@.ffffG@/u\J8XG@p  
=qtr#(hURr#G@/fffffG@/fffffG@.QRG@^(JXgG@  
=p

tr#(hURr#G@/kQG@/zG{G@-kQG@-33333JG@Qtr#(hURr#G@-G@.=p  
=G@-LG@-fffffJ"G@ffffftr#(hURr#G@-LG@.(G@-QG@-fffffJ  
wYG@ffffftr#(hURr#G@-u(G@.GzHG@-(G@-JuiG@Qtr#(hU Rr#G@,G{G@-G@,G@,J(G@Qtr#(hU  
Rr#G@,fffffG@-(G@,W  
=pG@,(J=G@(\tr#(hU Rr#G@,p  
=qG@,QG@,G@,(\JA{G@(\tr#(hU Rr#G@-QG@-LG@,u(G@,(\JbG@(\tr#(hU Rr#G@,(\G@-(G@,LG@,p  
=J<VG@Qtr#(hU  
Rr#G@,RG@,G{G@,=p  
=G@,)\J G@  
=ptr#(hU Rr#G@,zGG@-33333G@,LG@,zGJHnG@(\tr#(hU Rr#G@,fffffG@-QG@,=p  
=G@,GzHJG@GzHtr#(hU  
Rr#G@,B\G@,zGG@,G@,W  
=pJ82G@(\tr#(hU Rr#G@,GzHG@-8QG@,=p  
=G@-J5G@tr#(hU Rr#G@-#  
=pG@.(G@-#  
=pG@-J=G@tr#(hU Rr#G@-aGzG@..zGG@-  
=p  
G@.  
=p  
JpG@  
=p  
tr#(hU Rr#G@-G@-G@,(\G@-(\)J@;pG@(\tr#(hU Rr#G@=-p  
=G@-GzG@-  
=p  
G@-p  
=J0AG@Qtr#(hU Rr#G@-QG@-QG@,fffffG@-33333JG@Qtr#(hU Rr#G@,G@-  
=pG@,G@-GzHJG@GzHtr#(hU Rr#G@-aGzG@.W  
=pG@-LG@-(\JxG@Gztr#(hU Rr#G@.33333G@.aGzG@-G@-fffffJqG@ffffftr#(hU Rr#G@,G{G@-  
33333G@,(\G@-p  
=qJ(XpG@p  
=qtr#(hU Rr#G@,G@-#  
=pG@,GzHG@-JG@tr#(hU  
Rr#G@-.zGG@-33333G@,G@-QJG@  
=p  
tr#(hU  
Rr#G@,)\G@-B\G@,33333G@,W  
=pJ|G@(\tr#(hU  
Rr#G@,(\G@-33333G@,QG@,JpvG@tr#(hU  
Rr#G@,QG@,G@+G{G@,(\JgG@  
=p  
tr#(hU  
Rr#G@+  
=qG@,kQG@+QG@+=p  
JYG@(\tr#(hU  
Rr#G@+G@+QG@\*QG@+(\J7G@(\tr#(hU  
Rr#G@+zGG@+33333G@\*RG@+.zGJ'G@33333tr#(hU  
  
Rr#G@+B\G@,p

=qG@+(\)G@,8QJ>G@333333tr#(hU  
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=p  
tr#(hU  
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JiG@\tr#(hU  
Rr#G@.p  
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Rr#G@,  
=qG@-\(G@,QG@-fffffJvG@ffffftr#(hU  
Rr#G@-B\((G@-\(G@-G@-\(JqG@\tr#(hU  
Rr#G@.  
=p  
G@.kQG@-G@-aGzJ:\_G@\tr#(hU  
Rr#G@-aGzG@.fffffG@-.zGG@.  
=pJG@  
=ptr#(hU  
Rr#G@/G@/fffffG@.G@/8QJxZG@333333tr#(hU  
Rr#G@/#  
=pG@^\(G@-QG@.GzJ=G@Gztr#(hU  
Rr#G@.G{G@0^QG@.\(G@^\(JG@\tr#(hU  
Rr#G@/G{G@0p  
=qG@/  
=pG@0RJ7G@  
\tr#(hURr#G@/GzG@0G@/zHG@0\(\JrgG@ \tr#(hURr#G@0G@1aGzG@0YG@0  
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=p  
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=pG@0  
=p  
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Rr#G@/G@0RG@.\(G@/.zGJI~G@333333tr#(hURr#G@/G@0h\G@^\(G@0LJP:MG@  
Ltr#(hURr#G@0:G{G@0=p  
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=qG@0333333G@/  
=p  
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=p  
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=qG@/G@0YJG@ \tr\$(hURr\$G@0

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\$G@0zHG@0#  
=pG@/kQG@/  
=qJIG@\tr\$(hURr\$G@/33333G@/G@.=p  
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\$(hURr\$G@/333333G@/QG@.ffffG@/p  
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LG@\tr\$(hURr\$G@.ffffG@.zGG@.333333G@.QRJ-|G@QRtr\$(hURr\$G@.\(G@.aGzG@-G@-  
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=p  
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=pG@-JG@Qtr\$(hU  
Rr\$G@-G@.ffffG@-u\G@.\(J-G@\tr\$(hURr  
\$G@.G@.G{G@.\)G@.G{J%G@\tr!\$(hURr"\$G@/QG@/G@.QG@.aGzJ`bQG@\tr#\$(hU  
Rr\$G@.GzHG@.LG@-LG@-zGJHYG@\tr%\$(hURr&\$G@-QG@.333333G@-8QG@-  
33333JG@Qtr\$(hURr(\$G@-33333G@.aGzG@-QRG@.\)JHWyG@(\tr)\$(hURr\*\$G@-G@-QG@-G@-#  
=pJ8  
RG@Qtr+\$(hURr,\$G@-\(G@-  
=pG@,333333G@,fffffJbG@ffffftr-\$(hURr.\$G@,zGG@-  
QG@+\(G@,GzHJXYG@GzHtr/\$(hURr0\$G@,QRG@-G@,=p  
=G@,G{JDG@\tr1\$(hURr2\$G@,GzG@,  
=qG@,G@,QJHpG@Qtr3\$(hURr4\$G@,  
=pG@-QG@,\(G@,J0.G@tr5\$(hURr6\$G@,QG@,\(G@,QG@,QJ+G@Qtr7\$(hURr8\$G@,\)G@,LG@+zGG@,#  
=pJ}TG@Qtr9\$(hURr:\$G@,G@,QG@+ffffG@,\)J cmG@  
=ptr;\$hURr<\$G@,QG@-  
=pG@,33333G@-JbG@tr=\$(hURr>\$G@-G@-\(G@-.zGG@-J[PG@tr?\$(hURr@\$G@.\(G@.\(G@-\(G@-  
JG@trA\$(hURrB\$G@-zGG@.G@,  
=qG@-33333J(G@QtrC\$(hURrD\$G@-\)G@-kQG@,GzG@-J%}G@QtrE\$(hU RrF\$G@-p  
=G@-  
=pG@-G@-\(JMuG@(\trG\$(hU  
RrH\$G@-\)G@-  
=pG@,G{G@-p  
=qJ L\_G@p  
=qtrI\$(hU  
RrJ\$G@-G@-G@,QG@-B\JaG@GzHtrK\$(hURrL\$G@-aGzG@-  
=pG@,G{G@-8QJeG@333333trM\$(hURrN\$G@-.zGG@-fffffG@,QG@,\(J?G@GztrO\$(hURrP\$G@,kQG@-  
QG@,kQG@-p  
=JPG@=p  
=trQ\$(hURrR\$G@-QG@-QG@,\)G@,333333J\_G@333333trS\$(hURrT\$G@,kQG@,RG@,G@,  
=p  
J`G@  
=p  
trU\$(hURrV\$G@+\(G@,LG@+G@+\(J>uG@(\trW\$(hURrX\$G@,G@,QG@+ffffG@,W  
=pJc|G@(\trY\$(hURrZ\$G@,zG{G@,zG{G@+QG@+JwG@tr[\$(hURr\G@+\(G@-  
G@+LG@.B\JLG@GzHtr]\$(hURr^\$G@,zG{G@-aGzG@,QRG@-\)J(G@(\tr\_\$(hURr`\$G@-  
G@.333333G@,G@-\(JJG@Gztra\$(hURrb\$G@-\(G@.#  
=pG@,zGG@,

=pJHG@  
=ptrc\$(hURrd\$G@,aGzG@-G@,G@,QJG@Qtr\$(hURrf\$G@,RG@-RG@,33333G@-  
QRJKG@QRtrg\$(hURrh\$G@,ffffG@-LG@,QG@-33333JG@33333tri\$(hURrj\$G@-kQG@-  
(\G@,GzG@,ffffJ0xG@Gztrk\$(hURrl\$G@,QG@-.zGG@,p  
=qG@,(\JaG@Gztrm\$(hURrn\$G@-G@-33333G@,#  
=pG@,LJG@GzHtro\$(hU  
Rrp\$G@,QG@-#  
=pG@,QG@,33333J}[G@Qtrq\$(hURrr\$G@-G@-B)(\G@,ffffG@,33333JHYG@Qtrs\$(hURrt\$G@,=p  
G@-33333G@,=p  
G@,zHJ|G@tru\$(hU  
Rrv\$G@,RG@-GzHG@,zG{G@-zGJqG@zGtrw\$(hURrx\$G@-8QG@-p  
=qG@,33333G@-W  
=pJ0G@(\try\$(hURrz\$G@-G@.G@-p  
=qG@.=p  
JG@(\tr{\$(hURr|G@.#  
=pG@.LG@-(\G@-33333JG@Qtr}\$(hURr~\$G@-33333G@-QG@-kQG@-p  
J8CzG@(\tr\$(hURr\$G@-  
=pG@.QG@-LG@.JUG@tr\$(hURr\$G@-QG@.(\G@+G@-zG{J:bG@zG{tr\$(hURr\$G@-(\G@.(\)G@-(\)G@.  
=p  
J0fG@  
=p  
tr\$(hURr\$G@-G{G@.  
=p  
G@,(\G@-JNvG@tr\$(hURr\$G@-#  
=pG@.G@-QG@-QJTG@Qtr\$(hURr\$G@-QG@..zGG@-p  
G@.QJQjG@  
=p  
tr\$(hURr\$G@.QG@.QRG@-G@-LJ  
oG@GzHtr\$(hURr\$G@-zG{G@-QG@,GzG@-QJDG@Qtr\$(hURr\$G@-8QG@-G@-  
=p  
G@-p  
=Jp EG@=p  
=tr\$(hURr\$G@-(\)G@-33333G@,G@-QJ@k6G@Qtr\$(hURr\$G@,  
=qG@-kQG@,QG@-(\JmG@  
=p  
tr\$(hU  
Rr\$G@-QG@-W  
=pG@,G@,p  
=J8VIG@Qtr\$(hURr\$G@,QG@,G{G@,=p  
=G@,u(\JWG@p  
=qtr\$(hURr\$G@,W  
=pG@,zHG@,QG@,p  
=qJ8IyG@p  
=qtr\$(hU  
Rr\$G@,  
=qG@-G@,W  
=pG@-p  
=qJG@p

=qtr\$(hURr\$G@-\(\G@.QG@-GzHG@-\(JnSG@-\(tr\$(hURr\$G@-zHG@.#  
=pG@-kQG@.QJhG@  
=p  
tr\$(hURr\$G@.G@..zGG@-  
=pG@.JT}G@tr\$(hURr\$G@.#  
=pG@.LG@-zGG@-ffffJMG@Gztr\$(hURr\$G@-\(\G@-G{G@-33333G@-RJXG@tr\$(hURr\$G@..zGG@.LG@-  
=pG@.Jh^G@tr\$(hURr\$G@-W  
=pG@-G@,33333G@,p  
=JWG@Qtr\$(hURr\$G@,RG@-\)G@,p  
=G@-JPC[G@Qtr\$(hURr\$G@-G@-QG@,G@,RJx0aG@tr\$(hURr\$G@,  
=pG@-ffffG@,  
=pG@,G{JBG@-\(tr\$(hURr\$G@,G@-p  
=G@,p  
=G@-#  
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LG@,QG@,ffffJCFG@Gztr\$(hURr\$G@-  
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G@-p  
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Rr\$G@,ffffG@,zHG@,ffffG@,p  
=Jh]:G@Qtr\$(hURr\$G@,G@,GzG@)\(G@\*ffffJPG@fffftr\$(hURr\$G@+kQG@+G@+G@+(\)JOG@(\)tr\$(hU  
Rr\$G@+.zGG@+33333G@\*G@\*zHJ@G@tr\$(hURr\$G@)G{G@+W  
=pG@)  
=pG@\*zG{J}G@zG{tr\$(hURr\$G@\*ffffG@\*G@)p  
=qG@\*p  
=JpOG@=p  
=tr\$(hURr\$G@\*B\(\G@\*aGzG@)\(G@\*GzHJSG@GzHtr\$(hURr\$G@\*\(\G@+=p  
=G@\*.zGG@+QJG@  
=p  
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\(\G@+QJ[G@Qtr\$(hURr\$G@+(\G@,QRG@+(\)G@,QJ  
G@Qtr\$(hURr\$G@+(\G@,33333G@+33333G@,p  
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G@2  
=pG@1QG@1J7G@!\tr\$(hURr\$G@1  
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Rr,G@UG@VDzGG@UG@VC33333JhG@VC33333tr,(hURr,G@VC33333G@VG@V  
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,G@U.QG@UQG@TzHG@U  
=pJ8G@U  
=ptr,(hURr,G@UzGG@UG{G@U^(G@U0  
=qJ^5G@U0  
=qtr  
,(hURr,G@U,G@U^QG@TG@TJ(IG@Ttr,(hURr,G@Tp  
=G@U\G@TffffffG@TJT9NG@Ttr,(hURr,G@TG@TzGG@T8)\G@T  
=qJxgG@T`  
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G@TG@UYG@T  
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JdG@Uj=p  
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G@W33333tr',(hURr,G@W\G@W  
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J@G@V tr1,(hURr2,G@VH)\G@VJ=p  
G@UiG@U\JaG@U\tr3,(hURr4,G@UnQG@U  
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=J-G@UMp  
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G@U\*=p  
G@U5QJ(G@U5QtrY,(hURrZ,G@U)G@U=p  
G@U  
=p  
G@UyJPG@Uytr[, (hURr\,G@U~QG@V\_\G@U}p  
=G@VLJuG@VLtr],(hURr^,G@V33333G@V  
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=qJG@V`  
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=pG@TG@U  
=pJfG@U  
=ptri,(hURrj,G@UGzG@U\G@UMp  
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JG@UZ=p  
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=pG@W@G@W}p  
=J41G@W}p  
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=JG@Wp  
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Rr,G@WjG{G@W  
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@Y"\(\G@XzGG@Y)JDHG@Y)tr,(hURr,G@Y.QG@Y\G@Y  
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G@Y3  
=pJ\*G@Y3  
=ptr,(hURr,G@YEQG@ZffffG@Y@  
=qG@YG{JG@YG{tr,(hURr,G@YzGG@ZIG@YG{G@ZC  
=pJ>G@ZC  
=ptr,(hU Rr,G@Z:=p  
G@Zp  
=G@Z8\)G@ZQJ%G@ZQtr,(hU  
Rr,G@ZQG@[5\(\G@ZzG{G@Z\(\J  
tG@Z\(\tr,(hURr,G@Z\(\G@[HQG@ZRG@[^\(J)<dG@[^\(\tr,(hURr,G@[gzHG@[G@[G@[W  
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=ptr,(hURr,G@[dzGG@[G@ZQG@ZGzJH+G@ZGztr,(hURr,G@[!RG@[5QG@YG{G@Z\(\J\$  
fG@Z\(\tr,(hURr,G@ZG@[wzHG@ZG@[^\(\JG@[^\(\tr,(hURr,G@[QG@[^\)G@[qGzG@[GzJ4RG@[Gztr,(hURr,G  
@[  
=pG@\G@[33333G@[QJ\G@[Qtr,(hURr,G@\\(\G@pG@\  
=qG@b\(\J@7G@b\(\tr,(hURr,G@\GzG@\G@%\(\G@8)JG@8)tr,(hURr,G@3  
=pG@p  
=G@[zHG@[^\(\JG@[^\(\tr,(hURr,G@\G@\qRG@[G@\gzHJXG@\gzHtr,(hURr,G@\G@\  
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(G@^L(\JXG@^L\(\tr,(hURr,G@^FffffG@^L\(\G@)\(\G@]mG@]tr,(hURr,G@]QG@^nQG@]yG@^UQJ2G@^U  
Qtr,(hURr,G@^Z=p  
G@^\(\G@^G@^G{JG@^G{tr,(hURr,G@^33333G@\_33333G@^\G@^)J^G@^)tr,(hURr,G@\_?(\G@\_  
=pG@^\(\G@\_zGJG@\_zGtr,(hURr,G@\_tzGG@\_uQG@^\(\G@\_)(JG@\_)(tr,(hURr,G@\_G@\_G@)\(\G@^\(JcG@^\(  
\tr,(hURr,G@]ffffG@^mp  
=G@]  
=pG@^QJj G@^Qtr,(hU  
Rr,G@^IG@^L(\G@G@]`J\$G@]`tr,(hURr,G@]LG@]G@]G{G@]JLcG@]tr,(hURr,G@^zHG@^\*G{G@]  
=pG@^  
JDG@^ tr,(hURr,G@^RG@\_KQG@^\(\G@\_E)(J=G@\_E)(tr,(hURr-G@\_,\(\G@\_@  
=qG@^=p  
G@^=p  
JG@^=p  
tr-(hURr-G@^zHG@\_\*=p  
G@^G@^c33333JG@^c33333tr-(hURr-G@^IG@\_(\G@^zGG@^JG@^tr-(hURr-  
G@^ffffG@\_G@^QG@^JXXXG@^tr-(hURr-G@\_(\G@\_E)(G@^C  
=pG@^\(JIG@^\(tr-(hURr  
-G@^QG@\_G@]zGG@]J<G@]tr-(hURr-G@^

=pG@^(G@]  
=qG@^x)J\*G@^x)tr  
-(hURr-G@^  
=pG@^(G@^G@^#  
=pJG@^#  
=ptr-(hURr-G@^~zGG@\_G@^E(G@^(JIG@^(tr-(hURr-G@^C33333G@^(G@]33333G@^P  
=qJ0(G@^P  
=qtr-(hURr-G@^G@\_G@^G@\_G{JyG@\_G{tr-(hURr-G@`G@`  
=pG@`zGG@`JG@`tr-(hURr-G@`(\G@`G{G@`LG@`JG@`tr-(hU Rr-G@`(\G@`G@`%)(G@`J(JG@`J(tr-(hU  
Rr-G@`(\G@`G@`RG@`33333JG@`33333tr-(hURr-G@`=p  
G@`ffffG@`iRG@`zGJG@`zGtr-(hURr -G@`33333G@`zHG@`zGG@`=p  
J8G@`=p  
tr!-(hU  
Rr"-G@`)G@a;33333G@`  
=qG@a7(J\$G@a7(tr#-(hURr\$-G@aLzGG@a(G@a0G@aC33333J\$G@aC33333tr%-(hURr&-  
G@aIG@as33333G@a0G@a]QJG@a]Qtr'-(hURr(-G@aFzGG@aNzGG@aGzG@aC  
=pJHtG@aC  
=ptr)-(hURr\*-G@aG@aRG@atG@aJdG@atr+-(hURr,-G@aG@b(G@aG@aJb|G@atr--(hURr.-G@aRG@b'  
=pG@a(G@aaffffJ4G@aafffftr-(hURr0-G@a(\G@aG@`G@`zGJ[G@`zGtr1-(hURr2-  
G@a+33333G@aKQG@`G@a(QJZ/G@a(Qtr3-(hURr4-G@b=QG@bG@aQG@b@JLG@b@tr5-(hURr6-  
G@bFzGG@bp  
=G@a)G@a33333JxG@a33333tr7-(hURr8-G@b  
(\G@b.ffffG@ar=p  
G@a(JB[G@a(tr9-(hURr:-G@a  
=pG@a(G@`p  
=qG@`xQJmG@`xQtr;-(hURr<-G@`zGG@`(\G@\_GzG@`JG@`tr=(hURr>-G@aG@aQG@`G@azHJG@azHtr?-  
(hURr@-G@`QG@`ffffG@`pG@`{33333J  
rG@`{33333trA-(hURrB-G@`G@`  
=qG@`G@`J-G@`trC-(hURrD-G@`zGG@a'zHG@`(\G@`)JG@`)trE-(hURrF-  
G@aQG@aQG@`G@`QJ`G@`QtrG-(hU RrH-G@`cQG@`G@\_E(G@\_)JJeG@\_)trI-(hU  
RrJ-G@^zHG@\_G@^33333G@\_@JG@\_@trK-(hU  
RrL-G@`  
=p  
G@`+33333G@\_G@\_(JMG@\_(trM-(hURrN-G@`GzG@`G@^p  
=G@\_RJG@\_RtrO-(hURrP-G@^(G@\_7  
=pG@]G@]JG@]trQ-(hURrR-G@]@  
=qG@]G@[zHG@]C33333JCG@]C33333trS-(hURrT-G@^  
=qG@^G@]zGG@^  
=pJAG@^  
=ptrU-(hURrV-G@^p  
=G@\_G@^G@^zGJG@^zGtrW-(hURrX-G@^p  
=G@`QG@^@G@\_zGJG@\_zGtrY-(hURrZ-G@g  
=pG@`G@`J(G@`QJBG@`Qtr[-(hURr\ -G@`G{G@`G{G@`8QG@`b=p  
JcG@`b=p  
tr]- (hURr^ -G@`P)G@`  
=pG@`9RG@`JG@`tr\_-(hURr`-G@`zGG@`QG@`33333G@`J\$G@`tra-(hURrb-  
G@`\_zHG@`QG@\_QG@\_zGJG@\_zGtrc-(hURrd-G@`<(\G@`\(\G@`1GzG@`\(J{G@`\(tre-(hURrf-G@`p  
=G@aHG@`G@aJTG@atrg-(hURrh-G@a0zHG@atG@a-QG@aO(JG@aO(tri-(hU Rrj-

G@a~zGG@b7\(\G@azG{G@bQJTG@bQTrk-(hU Rrl-G@b  
=pG@b:G{G@a33333G@aQJG@aQtrm-(hU Rrn-G@`RG@a2=p  
G@`QG@`QJG@`Qtro-(hU Rrp-G@`QG@`G@`@G@`x  
=qJ  
G@`x  
=qtrq-(hU  
Rrr-G@azHG@aAGzG@`ffffG@aQJ\*G@aQtrs-(hU Rrt-G@a<G@aIG@`G@`zHJG@`zHtru-(hU Rrv-  
G@`zHG@alG@`G@a33333J]-G@a33333trw-(hU  
Rrx-G@aZ)(G@a`G@aG@a&ffffJeG@a&ffffftry-(hU Rrz-G@a=p  
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G@aaRG@a33333G@a:\(G@ap  
=JCG@ap  
=tr-(hU Rr-G@a  
=qG@aQG@alG@a  
=qJ/G@a  
=qtr-(hU Rr-G@aG@aGzG@aj=p  
G@aRJyG@aRtr-(hU Rr-G@azGG@bG@aRG@bJIG@btr-(hU Rr-G@bW(\G@b33333G@bTG@b)\Ja=G@b)tr-  
(hU Rr-G@bZG{G@c'  
=pG@bZ=p  
G@c%\JIG@c%\tr-(hU Rr-G@cO  
=pG@c`G@bG@c  
=qJzG@c  
=qtr-(hU Rr-G@c8  
=qG@cP  
=qG@c  
=p  
G@cPJfG@cPtr-(hU Rr-G@c.zGG@cS33333G@cG@c/  
=pJ4OG@c/  
=ptr-(hU  
Rr-G@cT(\G@cQG@c)(G@cG{J\*G@cG{tr-(hU  
Rr-G@cG@cG{G@c|zGG@cffffJG@cfffftr-(hU  
Rr-G@c)G@c(\G@cQG@cp  
=JdyG@cp  
=tr-(hU  
Rr-G@cG@c(\G@c0G@czHJfG@czHtr-(hU  
Rr-G@c  
=pG@d2(\G@cffffG@d.ffffJ&G@d.fffftr-(hU  
Rr-G@dozHG@dQG@d\_  
=pG@dQJG@dQtr-(hU  
Rr-G@eFffffG@ecQG@d(\G@dQJYG@dQtr-(hU  
  
Rr-G@dG@d(\G@d33333G@dGzJkG@dGztr-(hU  
Rr-G@e/zHG@e|\G@c&QG@dG\JG@dG\tr-(hU  
Rr-G@d`QG@d)G@d9G@dJ`G@dtr-(hU  
Rr-G@d(\G@e2=p  
G@dpG@d(\JIKG@d\tr-(hU  
Rr-G@dGzG@eE(\G@dG@e2\JEG@e2\tr-(hU  
Rr-G@ezGG@eGzG@e%\G@eJfG@etr-(hU

Rr-G@epG@ezGG@eaG@eJ(G@etr-(hU  
Rr-G@ezHG@e(\G@e@G@eMp  
=JG@eMp  
=tr-(hU  
Rr-G@eK33333G@eG@e>QG@eQJG@eQtr-(hU  
Rr-G@gRG@g33333G@fQG@gEQJhIG@gEQtr-(hU  
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Rr-G@g  
=pG@g<G@fQG@f)J,G@f)tr-(hU  
Rr-G@g)GzG@g+  
=pG@f(\G@gffffJG@gfffftr-(hU  
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=pG@g(\G@g`JG@g`tr-(hU  
Rr-G@gt(\G@g  
=pG@gffffG@gffffJLG@gfffftr-(hURr-G@g33333G@g33333G@fG@gnzGJG@gnzGtr-(hURr-  
G@gQG@gzGG@fzHG@g{  
=pJ"G@g{  
=ptr-(hURr-G@g)GzG@gQG@gzHG@gE(J=G@gE)(tr-(hURr-G@gag@hG@g(  
=qG@gzJHG@gGztr-(hURr-G@gQG@h(\G@gD(\G@gIJGG@gItr-(hURr-G@gUp  
=G@g\G@d  
=qG@e  
=pJUG@e  
=ptr-(hU Rr-G@edG@e  
=pG@dQG@d  
=pJL>G@d  
=ptr-(hURr-G@d)G@dffffG@b(\G@c8QJ\$/G@c8Qtr-(hU  
Rr-G@d33333G@e\_\(\G@c8QG@e>QJG@e>Qtr-(hURr-G@f%QG@f2=p  
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=pJ2sG@f  
=ptr-(hURr-G@fm(\G@g%p  
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=pJLG@f  
=ptr-(hURr-G@fQG@gzGG@f6ffffG@f[QJG@f]Qtr-(hURr-G@f\$G@fG@fzHG@fyRJG@fyRtr-(hURr-  
G@fzGG@g@g@fQG@g0JRG@g0tr-(hURr-G@gFzGG@g33333G@gC  
=pG@gffffJ[G@gfffftr-(hURr-G@gzG@h\_zHG@gzG@hIJDG@hItr-(hU  
Rr-G@h2G{G@huQG@hzGG@hFQJ  
G@hFQtr-(hURr-G@hXG@h(\G@gIzGG@gGzJg]G@gGztr-(hURr-G@h.zGG@hO)(G@g8QG@gQJG@gQtr-  
(hU  
Rr-G@gzGG@h  
=pG@gz=p  
G@g(J-G@g)(tr-(hURr-G@g

=pG@h&fffffG@gGzG@gzGJxoG@gzGtr-(hURr-G@g  
=pG@hG@f(G@gJi.G@gtr-(hURr-G@gP  
=qG@gj(G@fS33333G@f(JDG@f(tr-(hURr.G@f(G@gzGG@fG@f  
=pJG@f  
=ptr.(hURr.G@g-(G@gz)(G@f(G@gfQJG@gfQtr.(hURr.G@g  
=pG@h=QG@gzGG@h=QJhG@h=Qtr.(hURr.G@h`))G@h(G@hYGzG@hJG@htr.(hURr.G@hQG@iQG@h=p  
G@hfffffJG@hffffftr.(hURr  
.G@hfffffG@i^QG@hG@h=p  
J4G@h=p  
tr.(hURr.G@iG{G@i1RG@h(G@h(JG}G@h(tr  
.hURr.G@hG@iG@hG@h(J%G@h(tr.(hURr.G@h  
=qG@iQG@hG@hZG{JLG@hZG{tr.(hURr.G@hmQG@hZGG@hZGG@h](JG@h](tr.(hURr.G@gfffffG@h  
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G@ehtr.(hU Rr.G@eiG@fpG@e G@fJ]G@ftr.(hU  
Rr.G@f2(G@fG@eQG@f@  
=qJH(G@f@  
=qtr.(hURr.G@fG@f;33333G@e@G@ezGJG@ezGtr.(hURr .G@f0  
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@ctzGtr+.hURr,.G@azGG@aG@\_)G@ab=p  
J.G@ab=p  
tr-  
.hURr..G@azHG@afffffG@`QG@`33333JTEG@`33333tr/.(hURr0.G@a\_zHG@abG{G@`3QG@`@QJDOG@`  
@Qtr1.(hURr2.G@`QG@`fffffG@\_G@`@QJ#G@`@Qtr3.(hURr4.G@dG@d`GzG@`!G@`qGzJlqWG@`qGztr5.(  
hURr6.G@`k  
=pG@`fffffG@`G@`((JhG@`((tr7.(hURr8.G@`.fffffG@aG@`,G@`QJUG@`Qtr9.(hURr:.G@azHG@aG{G@`((  
G@`J&G@`tr;.(hURr<.G@`QG@`G@`mp  
=G@`tJ,G@`ttr=(.hURr>.G@`M(G@`G@`G@`+QJmG@`+Qtr?.(hURr@.G@`Z(G@` }p  
=G@`^qGzG@`^J]YG@`^trA.(hURrB.G@]zGG@`\_1RG@]QGzG@`^O)(J\SoG@`^O)(trC.(hURrD.G@`^QG@`\_IG@`^f  
fffffG@`^QJPG@`^QtrE.(hURrF.G@`QG@`?(G@`\_G@`.fffffJG@`.ffffftrG.(hURrH.G@`VfffffG@`G@`^zHG  
@\_7  
=pJ(G@\_7  
=ptrI.(hU  
RrJ.G@\_QG@`8)G@\_hQG@`,`J\$G@`,`trK.(hURrL.G@`,`G@`YG@\_  
=qG@\_p  
=JG@\_p  
=trM.(hURrN.G@\_GzG@\_QG@\_  
=pG@\_(QJt+G@\_(QtrO.(hURrP.G@\_(G@\_G@^(G@`^QJ#G@`^QtrQ.(hURrR.G@`^G@`\_&fffffG@`^kQG@`^zG  
Jh6G@`^zGtrS.(hURrT.G@\_33333G@\_zGG@`^7  
=pG@`^b(Jd;G@`^b)(trU.(hURrV.G@`^QG@`^  
=qG@`zHG@]p  
=JAG@]p  
=trW.(hURrX.G@](G@`^

G{G@]\*=p  
G@](J@G@)\(trY.(hURrZ.G@]h)G@^E\(\G@\\(\G@]JP4G@]tr[(hURr\G@]QG@^33333G@](G@^p  
=J#G@^p  
=tr].(hURr^G@\_G@`ffffG@\_qGzG@`=QJqG@`=Qtr\_(hURr`.G@`)GzG@`FQG@\_33333G@\_AGzJ.G@\_AG  
ztra.(hURrb.G@\_(\G@\_~QG@]G@^nQJ#dG@^nQtrc.(hURrd.G@^(\G@\_8QG@^G@\_`zHJG@\_`zHtre.(hURrf.G  
@^QG@\_H)G@^G@\_(\JG@\_(\trg.(hURrh.G@\_`'  
=pG@\_G@^3  
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G@^QG@]33333G@^JG@^trk.(hU  
Rrl.G@^~QG@^p  
=G@]zHG@]\(J  
G@]\(trm.(hURrn.G@\_ffffG@\_QG@^G@\_ffffJxLzG@\_fffftro.(hURrp.G@\_(\G@`(\G@\_JG{G@\_RJsAG@\_R  
trq.(hU  
Rrr.G@\_ffffG@`0G@^G@\_(\JG@\_(\trs.(hURrt.G@`<(\G@`IG@\_G@\_  
=pJQvG@\_  
=ptru.(hURrv.G@^33333G@`G{G@^33333G@\_QJHG@\_Qtrw.(hURrx.G@`%\(\G@`G@`p  
=G@`=p  
JG@`=p  
try.(hURrz.G@`  
=pG@`GzG@`5p  
=G@`5p  
=J&G@`5p  
=tr{.(hURr|.G@`c  
=pG@`GzG@`%\(\G@`  
=qJ?G@`  
=qtr}.(hURr~.G@`QG@a33333G@`zGG@ap)JIEG@ap)tr.(hURr.G@a~QG@a33333G@a\*(\G@a(J=G@a(tr.(h  
URr.G@a  
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Rr.G@c1G@cffffG@c  
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/G@d\G@e  
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/(hURr/G@e2G{G@ep  
=G@dG@eC  
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Rr/G@fffffG@fQG@ezGG@eJ(G@etr/(hU  
Rr/G@ep  
=G@f\*G{G@ek  
=pG@f(J#G@f(\tr/(hURr/G@e  
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=ptr/(hURr./G@dJG{G@dO  
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JinG@dr=p  
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=pJG@d'  
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=Jp:G@cp

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Rrl/G@c  
=p  
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JxvG@]j=p  
tr/(hU  
Rr/G@[G{G@\  
=pG@Z)G@[GzHJG@[GzHtr/(hU  
Rr/G@[  
=qG@[2\G@YG@YffffJmG@Yfffftr/(hU  
Rr/G@ZG@ZG@WG@XDzGJYG@XDzGtr/(hU  
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tr/(hU  
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=qJFG@[  
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Rr/G@[  
=qG@]G@Y)G@ZQJh7G@ZQtr/etb.

cOc@@sddklZddkTdS(i(tabsolute\_import(t\*N(t  
\_\_future\_\_Rtapptools.permissions.permission(((s)/usr/lib/python2.6/site-packages/etsproxy-0.1.1-  
py2.6.egg/enthought/permissions/permission.pyt<module>s  
Icon original authors and license

GV: Gael Varoquaux: BSD-licensed

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m2\_about.jpg | GV

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python_run_16x16.png | Enthought  
python_run_24x24.png | Enthought  
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d S(

i(tBoolt HasTraitstPropertytStrtUnicode(tget\_permissions\_managert

PermissioncBsSeZdZeZeZeZe e

Ze eZ

dZdZdZRS(sA permission is the link between an application action and the current

user - if the user has a permission attached to the action then the user is

allowed to perform that action.cKs-tt|i|tii|dS(sInitialise the

object.N(tsuperRt\_\_init\_\_Rtpolicy\_managertregister\_permission(tselftraits((s^/usr/lib64/python2.6/site-

packages/apptools-4.1.0-py2.6.egg/apptools/permissions/permission.pyR9scCs!|i}|p

|i}|n|S(s&Return a user friendly representation.(tdescriptiontid(Rts((s^/usr/lib64/python2.6/site-packages/apptools-

4.1.0-py2.6.egg/apptools/permissions/permission.py\_\_str\_\_As

cCsti|S(s#Check the user has this permission.(Rtcheck\_permissions(R((s^/usr/lib64/python2.6/site-

packages/apptools-4.1.0-py2.6.egg/apptools/permissions/permission.pyt\_get\_grantedNs(t\_\_name\_\_t

\_\_module\_\_t\_\_doc\_\_RRRR

RtgrantedRtFalset bootstrapTruetapplication\_definedRRRR(((s^/usr/lib64/python2.6/site-packages/apptools-4.1.0-

py2.6.egg/apptools/permissions/permission.pyRs

tManagePolicyPermissioncBs2eZdZedZedZeeZ RS(s:The

standard permission for managing permissions policies.sets.permissions.manage\_policyuManage permissions

policy(

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standard permission for managing permissions users.sets.permissions.manage\_usersuManage users(

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py2.6.egg/apptools/permissions/permission.pyt<module>s(=

NUMPY{'descr': [('times', '<f8'), ('opens', '<f8'), ('highs', '<f8'), ('lows', '<f8'), ('closes', '<f8'), ('volumes', '<f8')],  
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#:@=  
p:@=  
p}9@Hz9@xEAQ&Affff9@  
p=  
:@Q9@333339@9AQ&Ap=  
9@&19@\\$#9@(\B9@xAR&Ap=  
c9@(\:@(\59@9@iAR&A333339@p=  
W:@Hz9@zG9@q"AR&Aq=  
9@Q:@9@p=  
9@ SA  
R&Ap=  
9@~jt3:@p=  
c9@ffff&:@HAR&A:@Gz:@33333s:@zG:@qAR&A33333:@33333:@)\h:@33333s:@AR&AQ:@V:@33333:@  
Qk:@HGAR&A(\B;@;@9v?;@33333;@AR&A(\:@33333;@sh|?;@Qx;@0AR&A@;@33333s;@p=  
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#;@QE;@  
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p9@  
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Affff;@{G:@zG!:@=  
p:@zArR&AHZ:@33333:@(\5:@Q8:@hAxR&A(\O:@  
p:@@{G::@;@8=AzR&A(\O:@Q:@(\9@R:@hVA|R&A(\;@Gz:@L:@Qk:@ 8}A~R&A:@Gz:@=  
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AR&A(\u:@V:@Y:@Q:@!AR&A33333:@L;@Qx:@(\B;@AR&AQk;@ffff<@zGa;@L<@AR&A<@Qx<@=  
p;@Gzn<@AR&A{G:<@<@Q+<@zGa<@AR&Ap=  
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W<@p=  
<@8AR&AQ<@(\<@MbP<@Q^<@82AR&AHz<@Gz.<@{Gz;@;@(AR&A);@(\<@p=  
;@p=  
;@hAR&A{Gz;@ffffff<@33333:@p=  
W<@hAR&AQ^<@(\<@GzT<@(\<@dAR&A)\h<@33333<@RQ<@ffff<@AR&A(\<@33333<@Qx<@<@AR  
&A=  
p}<@(\=@Qk<@=@pU  
AR&A(\=@Q=@Q=@(\=@pAR&Ap=  
c=@>@(\<@R=@(UAR&AQ=@(\=@zG<@=@AR&A(\=@33333=@%Ck<@(\u<@AR&AQx<@1<@Q8<@=  
p=<@0AR&AQE<@Hz<@p=  
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0<@peAR&A)\h<@)\<@<@Gz<@@AR&Ap=  
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0<@<@@NAR&A)\(=@(\u=@Gz<@Gz=@(SAR&Affff&=@L=@)\<@q=  
0=@8Z=AR&A(\=@Zd;\_=@Q<@p=  
#=@`]AR&A(\=@(\=@Gz<@R<@HqiAR&AQ8=@}bY=@<@q=  
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33333=@(\B=@33333<@R=@AR&A)\<@(\O=@<@{G:=@h'AR&AHzG=@  
p=J=@<@Gz<@/bAR&A33333<@Q^=@<@Y=@+AR&AY=@Gzn=@Q+=@|?5^Z=@(AR&AHz=@(\5=@<@  
p=  
<@cKAR&AQ<@Gz=@33333<@)\<@AR&AQE;@ffffff;@Qk:@\(:@b\$AR&A);@;@R:@);@LAR&Ap=  
;@Q8;@zG:@333333;@Z3AR&A)\(:@;@;@);@=  
p:@AR&A(\;@  
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;@)\9@Q:@\$AR&AQ^:@q=  
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@{G9@bA0S&AQ9@333339@zGa9@ffff9@A2S&A\9@zG9@RQ9@33333s9@h>A6S&A9@9@ffff9@(\9  
@@WA<S&Affff9@(\5:@9@p=  
9@xIA>S&A333339@p=  
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:@DAPS&Ap=  
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;@Gz;@: @  
p=  
;@A^S&A;@3333s;@;@ffff;@-A`S&A=  
p};@;@q=  
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p=<@H6dAS&AQ+<@\O<@\<@\5<@h%AS&Ap=  
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p: @Q: @MAS&Affff: @{G: @Gzn: @(\u: @xAS&Affff: @Q: @: @R: @AS&A: @(\;@Yz: @\(: @PAS&A: @33333:  
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: @Y: @Q^: @AS&AY: @: @Q8: @Q^: @p6: AS&AQ^: @Qk: @(\5: @Q^: @AS&A{G:: @: @333333: @Y: @0AT&A  
(\O: @Y: @(\9@Gz9@IAT&A9@Q9@  
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w!DYKdg)+vo^XJe))+A"?2l{--  
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Nuvola	LGPL	image_LICENSE_Nuvola.txt
OOo	LGPL	image_LICENSE_OOo.txt

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Files and original authors:

enthought/traits/ui/wx/images:

cb\_hover\_off.png | Enthought  
 cb\_hover\_on.png | Enthought  
 cb\_off.png | Enthought

cb\_on.png | Enthought  
 file.png | Enthought  
 frame.ico | Enthought  
 group.png | Nuvola  
 item.png | Eclipse  
 list\_editor.png | Enthought  
 nb\_open.png | Enthought  
 object.png | Enthought  
 open.png | Nuvola  
 table\_add.png | OOo  
 table\_colors.png | GV  
 table\_delete.png | OOo  
 table\_delete\_synthetic.png | OOo  
 table\_display.png | OOo  
 table\_move\_down.png | GV  
 table\_move\_up.png | GV  
 table\_no\_sort.png | OOo  
 table\_prefs.png | OOo  
 table\_search.png | OOo  
 table\_synthetic.png | OOo  
 table\_undelete.png | OOo

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 Crystal: LGPL  
 OOo: LGPL  
 GV: Gael Varoquaux: BSD-licensed

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Files and original authors:

```
-----  
add_filter.png | Nuvola  
add_module.png | Crystal  
add_scene.png | Crystal  
add_source.png | Crystal  
add.ico | GV  
help_action.png | GV  
m2.png | GV  
mv2.ico | GV  
preferences.png | Crystal  
P6  
# CREATOR: The GIMP's PNM Filter Version 1.0  
16 16  
255  
hIu=-Kx*C[?e?e?e?e?e?e?e4So*C[?e?e)BZ)BZ)BZ)BZ-G`*C[?e*C[  
#### MATPLOTLIBRC FORMAT  
  
# This is a sample matplotlib configuration file - you can find a copy  
# of it on your system in  
# site-packages/matplotlib/mpl-data/matplotlibrc. If you edit it  
# there, please note that it will be overridden in your next install.  
# If you want to keep a permanent local copy that will not be  
# over-written, place it in HOME/.matplotlib/matplotlibrc (unix/linux  
# like systems) and C:\Documents and Settings\yourname\.matplotlib  
# (win32 systems).  
#  
# This file is best viewed in a editor which supports python mode  
# syntax highlighting. Blank lines, or lines starting with a comment  
# symbol, are ignored, as are trailing comments. Other lines must  
# have the format  
# key : val # optional comment  
#  
# Colors: for the color values below, you can either use - a  
# matplotlib color string, such as r, k, or b - an rgb tuple, such as  
# (1.0, 0.5, 0.0) - a hex string, such as ff00ff or #ff00ff - a scalar  
# grayscale intensity such as 0.75 - a legal html color name, eg  
red,  
# blue, darkslategray  
  
#### CONFIGURATION BEGINS HERE  
  
# the default backend; one of GTK GTKAgg GTKCairo CocoaAgg FltkAgg  
# MacOSX QtAgg Qt4Agg TkAgg WX WXAgg Agg Cairo GDK PS PDF SVG Template  
# You can also deploy your own backend outside of matplotlib by
```

```

# referring to the module name (which must be in the PYTHONPATH) as
# 'module://my_backend'
backend    : GTKAgg

# if you are running pyplot inside a GUI and your backend choice
# conflicts, we will automatically try and find a compatible one for
# you if backend_fallback is True
#backend_fallback: True
#interactive   : False
#toolbar      : toolbar2 # None | classic | toolbar2
#timezone     : UTC     # a pytz timezone string, eg US/Central or Europe/Paris

# Where your matplotlib data lives if you installed to a non-default
# location. This is where the matplotlib fonts, bitmaps, etc reside
#datapath : /home/jdhunter/mpldata

### LINES
# See http://matplotlib.sourceforge.net/api/artist\_api.html#module-matplotlib.lines for
# more
# information on line properties.
#lines.linewidth : 1.0 # line width in points
#lines.linestyle  : -   # solid line
#lines.color      : blue
#lines.marker     : None # the default marker
#lines.markeredgewidth : 0.5 # the line width around the marker symbol
#lines.markersize : 6     # markersize, in points
#lines.dash_joinstyle : miter # miter|round|bevel
#lines.dash_capstyle : butt  # butt|round|projecting
#lines.solid_joinstyle : miter # miter|round|bevel
#lines.solid_capstyle : projecting # butt|round|projecting
#lines.antialiased : True    # render lines in antialiased (no jaggies)

### PATCHES
# Patches are graphical objects that fill 2D space, like polygons or
# circles. See
# http://matplotlib.sourceforge.net/api/artist\_api.html#module-matplotlib.patches
# information on patch properties
#patch.linewidth : 1.0 # edge width in points
#patch.facecolor : blue
#patch.edgecolor  : black
#patch.antialiased : True
# render patches in antialiased (no jaggies)

### FONT
#
# font properties used by text.Text. See
# http://matplotlib.sourceforge.net/api/font\_manager\_api.html for more

```

```

# information on font properties. The 6 font properties used for font
# matching are given below with their default values.
#
# The font.family property has five values: 'serif' (e.g. Times),
# 'sans-serif' (e.g. Helvetica), 'cursive' (e.g. Zapf-Chancery),
# 'fantasy' (e.g. Western), and 'monospace' (e.g. Courier). Each of
# these font families has a default list of font names in decreasing
# order of priority associated with them.
#
# The font.style property has three values: normal (or roman), italic
# or oblique. The oblique style will be used for italic, if it is not
# present.
#
# The font.variant property has two values: normal or small-caps. For
# TrueType fonts, which are scalable fonts, small-caps is equivalent
# to using a font size of 'smaller', or about 83% of the current font
# size.
#
# The font.weight
property has effectively 13 values: normal, bold,
# bolder, lighter, 100, 200, 300, ..., 900. Normal is the same as
# 400, and bold is 700. bolder and lighter are relative values with
# respect to the current weight.
#
# The font.stretch property has 11 values: ultra-condensed,
# extra-condensed, condensed, semi-condensed, normal, semi-expanded,
# expanded, extra-expanded, ultra-expanded, wider, and narrower. This
# property is not currently implemented.
#
# The font.size property is the default font size for text, given in pts.
# 12pt is the standard value.
#
#font.family      : sans-serif
#font.style       : normal
#font.variant     : normal
#font.weight      : medium
#font.stretch     : normal
# note that font.size controls default text sizes. To configure
# special text sizes tick labels, axes, labels, title, etc, see the rc
# settings for axes and ticks. Special text sizes can be defined
# relative to font.size, using the following values: xx-small, x-small,
#
small, medium, large, x-large, xx-large, larger, or smaller
#font.size        : 12.0
#font.serif       : Bitstream Vera Serif, New Century Schoolbook, Century Schoolbook L, Utopia, ITC Bookman,
Bookman, Nimbus Roman No9 L, Times New Roman, Times, Palatino, Charter, serif
#font.sans-serif  : Bitstream Vera Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica, Avant Garde,
sans-serif

```

#font.cursive : Apple Chancery, Textile, Zapf Chancery, Sand, cursive  
#font.fantasy : Comic Sans MS, Chicago, Charcoal, Impact, Western, fantasy  
#font.monospace : Bitstream Vera Sans Mono, Andale Mono, Nimbus Mono L, Courier New, Courier, Fixed, Terminal, monospace

### ### TEXT

# text properties used by text.Text. See  
# [http://matplotlib.sourceforge.net/api/artist\\_api.html#module-matplotlib.text](http://matplotlib.sourceforge.net/api/artist_api.html#module-matplotlib.text) for more  
# information on text properties

#text.color : black

### LaTeX customizations. See <http://www.scipy.org/Wiki/Cookbook/Matplotlib/UsingTex>

#text.usetex

: False # use latex for all text handling. The following fonts  
# are supported through the usual rc parameter settings:  
# new century schoolbook, bookman, times, palatino,  
# zapf chancery, charter, serif, sans-serif, helvetica,  
# avant garde, courier, monospace, computer modern roman,  
# computer modern sans serif, computer modern typewriter  
# If another font is desired which can loaded using the  
# LaTeX \usepackage command, please inquire at the  
# matplotlib mailing list

#text.latex.unicode : False # use "ucs" and "inputenc" LaTeX packages for handling  
# unicode strings.

#text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES  
# AND IS THEREFORE UNSUPPORTED. PLEASE

DO NOT ASK FOR HELP

# IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.  
# preamble is a comma separated list of LaTeX statements  
# that are included in the LaTeX document preamble.  
# An example:  
# text.latex.preamble : \usepackage{bm},\usepackage{euler}  
# The following packages are always loaded with usetex, so  
# beware of package collisions: color, geometry, graphicx,  
# type1cm, textcomp. Adobe Postscript (PSSNFS) font packages  
# may also be loaded, depending on your font settings

#text.dvipnghack : None # some versions of dvipng don't handle alpha  
# channel properly. Use True to correct  
# and flush ~/.matplotlib/tex.cache  
# before testing and

False to force

# correction off. None will try and  
# guess based on your dvipng version

#text.markup : 'plain' # Affects how text, such as titles and labels, are  
# interpreted by default.

```

        # 'plain': As plain, unformatted text
# 'tex': As TeX-like text. Text between $'s will be
# formatted as a TeX math expression.
# This setting has no effect when text.usetex is True.
# In that case, all text will be sent to TeX for
# processing.

# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.
#mathtext.cal : cursive
#mathtext.rm  : serif
#mathtext.tt  : monospace
#mathtext.it  : serif:italic
#mathtext.bf  : serif:bold
#mathtext.sf
: sans
#mathtext.fontset : cm # Should be 'cm' (Computer Modern), 'stix',
        # 'stixsans' or 'custom'
#mathtext.fallback_to_cm : True # When True, use symbols from the Computer Modern
        # fonts when a symbol can not be found in one of
        # the custom math fonts.

#mathtext.default : it # The default font to use for math.
        # Can be any of the LaTeX font names, including
        # the special name "regular" for the same font
        # used in regular text.

### AXES
# default face and edge color, default tick sizes,
# default font sizes for tick labels, and so on. See
# http://matplotlib.sourceforge.net/api/axes\_api.html#module-matplotlib.axes
#axes.hold      : True # whether to clear the axes by default on
#axes.facecolor : white # axes background color
#axes.edgecolor : black # axes edge color
#axes.linewidth : 1.0 # edge linewidth
#axes.grid      : False # display
grid or not
#axes.titlesize : large # fontsize of the axes title
#axes.labelsize : medium # fontsize of the x any y labels
#axes.labelcolor : black
#axes.axisbelow : False # whether axis gridlines and ticks are below
        # the axes elements (lines, text, etc)
#axes.formatter.limits : -7, 7 # use scientific notation if log10
        # of the axis range is smaller than the
        # first or larger than the second

```

```

#axes.unicode_minus : True # use unicode for the minus symbol
                        # rather than hyphen. See http://en.wikipedia.org/wiki/Plus\_sign#Plus\_sign

#polaraxes.grid : True # display grid on polar axes
#axes3d.grid : True # display grid on 3d axes

### TICKS
# see http://matplotlib.sourceforge.net/api/axis\_api.html#matplotlib.axis.Tick
#xtick.major.size : 4 # major tick size in points
#xtick.minor.size : 2 # minor tick
size in points
#xtick.major.pad : 4 # distance to major tick label in points
#xtick.minor.pad : 4 # distance to the minor tick label in points
#xtick.color : k # color of the tick labels
#xtick.labelsize : medium # fontsize of the tick labels
#xtick.direction : in # direction: in or out

#ytick.major.size : 4 # major tick size in points
#ytick.minor.size : 2 # minor tick size in points
#ytick.major.pad : 4 # distance to major tick label in points
#ytick.minor.pad : 4 # distance to the minor tick label in points
#ytick.color : k # color of the tick labels
#ytick.labelsize : medium # fontsize of the tick labels
#ytick.direction : in # direction: in or out

### GRIDS
#grid.color : black # grid color
#grid.linestyle : : # dotted
#grid.linewidth : 0.5 # in points

### Legend
#legend.fancybox : False # if True, use a rounded box for the
                        # legend, else a rectangle
#legend.isaxes : True
#legend.numpoints : 2 # the number of points in the legend line
#legend.fontsize : large
#legend.pad : 0.0 # deprecated; the fractional whitespace inside the legend border
#legend.borderpad : 0.5 # border whitespace in fontsize units
#legend.markerscale : 1.0 # the relative size of legend markers vs. original
# the following dimensions are in axes coords
#legend.labelsep : 0.010 # the vertical space between the legend entries
#legend.handlelen : 0.05 # the length of the legend lines
#legend.handletextsep : 0.02 # the space between the legend line and legend text
#legend.axespad : 0.02 # the border between the axes and legend edge
#legend.shadow : False

```

### ### FIGURE

# See [http://matplotlib.sourceforge.net/api/figure\\_api.html#matplotlib.figure.Figure](http://matplotlib.sourceforge.net/api/figure_api.html#matplotlib.figure.Figure)

#figure.figsize : 8, 6 # figure size in inches

#figure.dpi : 80 # figure dots  
per inch

#figure.facecolor : 0.75 # figure facecolor; 0.75 is scalar gray

#figure.edgecolor : white # figure edgecolor

# The figure subplot parameters. All dimensions are fraction of the  
# figure width or height

#figure.subplot.left : 0.125 # the left side of the subplots of the figure

#figure.subplot.right : 0.9 # the right side of the subplots of the figure

#figure.subplot.bottom : 0.1 # the bottom of the subplots of the figure

#figure.subplot.top : 0.9 # the top of the subplots of the figure

#figure.subplot.wspace : 0.2 # the amount of width reserved for blank space between subplots

#figure.subplot.hspace : 0.2 # the amount of height reserved for white space between subplots

### ### IMAGES

#image.aspect : equal # equal | auto | a number

#image.interpolation : bilinear # see help(imshow) for options

#image.cmap : jet # gray | jet etc...

#image.lut : 256 # the size of the colormap lookup table

#image.origin : upper  
# lower | upper

#image.resample : False

### ### CONTOUR PLOTS

#contour.negative\_linestyle : dashed # dashed | solid

### ### Agg rendering

### Warning: experimental, 2008/10/10

#agg.path.chunksize : 0 # 0 to disable; values in the range  
# 10000 to 100000 can improve speed slightly  
# and prevent an Agg rendering failure  
# when plotting very large data sets,  
# especially if they are very gappy.  
# It may cause minor artifacts, though.  
# A value of 20000 is probably a good  
# starting point.

### ### SAVING FIGURES

#path.simplify : False # When True, simplify paths by removing "invisible"  
# points to reduce file size and increase rendering  
# speed

#path.simplify\_threshold : 0.1 # The threshold of similarity  
below which

# vertices will be removed in the simplification  
# process

```

# the default savefig params can be different from the display params
# Eg, you may want a higher resolution, or to make the figure
# background white
#savefig.dpi    : 100    # figure dots per inch
#savefig.facecolor : white # figure facecolor when saving
#savefig.edgecolor : white # figure edgecolor when saving

#cairo.format    : png    # png, ps, pdf, svg

# tk backend params
#tk.window_focus : False # Maintain shell focus for TkAgg
#tk.pythoninspect : False # tk sets PYTHONINSEPCT

# ps backend params
#ps.papersize    : letter # auto, letter, legal, ledger, A0-A10, B0-B10
#ps.useafm       : False # use of afm fonts, results in small files
#ps.usedistiller : False # can be: None, ghostscript or xpdf
                        # Experimental: may produce smaller files.

                        # xpdf intended for production of publication quality files,
                        # but requires ghostscript, xpdf and ps2eps
#ps.distiller.res : 6000 # dpi
#ps.fonttype      : 3    # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params
#pdf.compression : 6 # integer from 0 to 9
                    # 0 disables compression (good for debugging)
#pdf.fonttype    : 3    # Output Type 3 (Type3) or Type 42 (TrueType)

# svg backend params
#svg.image_inline : True # write raster image data directly into the svg file
#svg.image_noscale : False # suppress scaling of raster data embedded in SVG
#svg.embed_char_paths : True # embed character outlines in the SVG file

# docstring params
#docstring.hardcopy = False # set this when you want to generate hardcopy docstring

# Set the verbose flags. This controls how much information
# matplotlib gives you at runtime and where it goes. The verbosity
#
# levels are: silent, helpful, debug, debug-annoying. Any level is
# inclusive of all the levels below it. If your setting is "debug",
# you'll get all the debug and helpful messages. When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
# and paste the output into your report.
#
# The "file" gives the destination for any calls to verbose.report.
# These objects can a filename, or a filehandle like sys.stdout.

```





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P6

# CREATOR: The GIMP's PNM Filter Version 1.0

16 16

255

sOoOoHf3HZ"0;xKjOo3HZOoOoOoOo3HZxOo3HZ3HZx  
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P6

# CREATOR: The GIMP's PNM Filter Version 1.0

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RRvv/BSiKgS!!@pppDDcc1CSn7c?ZdddLLL002ET8Y?EwE333mmm\v333|333~333KW\_08=19>19>2;>;EJK  
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```
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.
```

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

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

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-----  
exit.png CP  
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-----  
enthought/pyface/tree/images:  
    closed\_folder.png | Nuvola  
    document.png | GV  
    open\_folder.png | Nuvola

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P6  
# CREATOR: The GIMP's PNM Filter Version 1.0  
16 16  
255

&&&FFFpppFFFFFF \$\$\$\$\$\$FFFFFFmmmFFFFFF hhh444yyy:::hhh

P6

# CREATOR: The GIMP's PNM Filter Version 1.0

16 16

255

&cJ~uhtgtgsf=DaR.rTi|9El\_4Odu7MXM+I r6>XN+H\_qtaV/sssI rOAI rov}I rl}}I r/FVI r0B3IZ-

<XmI r.CSZp(5ZpI rKx!6H\_y,:ZpI rYcmOdunnnzzz-9I>O\1 @

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enthought/pyface/ui/wx/images:

application.ico | Enthought

heading\_level\_1.png | Enthought

warning.png | GV

<?xml version="1.0" standalone="no"?> <!--\*- mode: xml -\*-->

<!DOCTYPE glade-interface SYSTEM "http://glade.gnome.org/glade-2.0.dtd">

<glade-interface>

<widget class="GtkDialog" id="dialog\_lineprops">

<property name="visible">True</property>

<property name="title" translatable="yes">Line Properties</property>

<property name="type">GTK\_WINDOW\_TOPLEVEL</property>

<property name="window\_position">GTK\_WIN\_POS\_NONE</property>

<property name="modal">False</property>

<property name="resizable">True</property>

<property name="destroy\_with\_parent">False</property>

<property name="decorated">True</property>

<property name="skip\_taskbar\_hint">False</property>

<property name="skip\_pager\_hint">False</property>

<property name="type\_hint">GDK\_WINDOW\_TYPE\_HINT\_DIALOG</property>

<property name="gravity">GDK\_GRAVITY\_NORTH\_WEST</property>

<property name="has\_separator">True</property>

<child internal-child="vbox">

<widget class="GtkVBox" id="dialog-vbox2">

<property

```

name="visible">True</property>
  <property name="homogeneous">False</property>
  <property name="spacing">0</property>

  <child internal-child="action_area">
<widget class="GtkHButtonBox" id="dialog-action_area2">
  <property name="visible">True</property>
  <property name="layout_style">GTK_BUTTONBOX_END</property>

  <child>
  <widget class="GtkButton" id="dialog_lineprops_cancelbutton">
    <property name="visible">True</property>
    <property name="can_default">True</property>
    <property name="can_focus">True</property>
    <property name="label">gtk-cancel</property>
    <property name="use_stock">True</property>
    <property name="relief">GTK_RELIEF_NORMAL</property>
    <property name="focus_on_click">True</property>
    <property name="response_id">-6</property>
    <signal name="clicked" handler="on_dialog_lineprops_cancelbutton_clicked" last_modification_time="Mon,
07 Nov 2005 20:52:05 GMT"/>
  </widget>
  </child>

  <child>
  <widget class="GtkButton" id="dialog_lineprops_okbutton">
    <property name="visible">True</property>
    <property name="can_default">True</property>
    <property name="can_focus">True</property>
    <property name="label">gtk-ok</property>
    <property name="use_stock">True</property>
    <property name="relief">GTK_RELIEF_NORMAL</property>
    <property name="focus_on_click">True</property>
    <property name="response_id">-5</property>
    <signal name="clicked" handler="on_dialog_lineprops_okbutton_clicked" last_modification_time="Mon, 07
Nov 2005 20:51:43 GMT"/>
  </widget>
  </child>
</widget>
<packing>
  <property name="padding">0</property>
  <property name="expand">False</property>
  <property name="fill">True</property>
  <property name="pack_type">GTK_PACK_END</property>
</packing>
</child>

```

```

    <child>
<widget class="GtkVBox" id="vbox_lineprops">
  <property name="visible">True</property>
  <property name="homogeneous">False</property>

  <property name="spacing">0</property>

  <child>
    <widget class="GtkComboBox" id="combobox_lineprops">
      <property name="visible">True</property>
      <property name="items" translatable="yes"></property>
      <signal name="changed" handler="on_combobox_lineprops_changed" last_modification_time="Mon, 07 Nov
2005 20:40:07 GMT"/>
    </widget>
    <packing>
      <property name="padding">0</property>
      <property name="expand">True</property>
      <property name="fill">True</property>
    </packing>
  </child>

  <child>
    <widget class="GtkFrame" id="frame6">
      <property name="visible">True</property>
      <property name="label_xalign">0</property>
      <property name="label_yalign">0.5</property>
      <property name="shadow_type">GTK_SHADOW_NONE</property>

      <child>
        <widget class="GtkAlignment" id="alignment9">
          <property name="visible">True</property>
          <property name="xalign">0.5</property>
          <property
name="yalign">0.5</property>
          <property name="xscale">1</property>
          <property name="yscale">1</property>
          <property name="top_padding">0</property>
          <property name="bottom_padding">0</property>
          <property name="left_padding">12</property>
          <property name="right_padding">0</property>

        </child>

        <widget class="GtkVBox" id="vbox5">
          <property name="visible">True</property>
          <property name="homogeneous">False</property>
          <property name="spacing">0</property>

        </child>

```

```

<widget class="GtkTable" id="table_lineprops">
  <property name="visible">True</property>
  <property name="n_rows">2</property>
  <property name="n_columns">3</property>
  <property name="homogeneous">False</property>
  <property name="row_spacing">0</property>
  <property name="column_spacing">0</property>

  <child>
    <widget class="GtkLabel" id="label11">
      <property name="visible">True</property>
      <property name="label"
translatable="yes">Marker</property>
      <property name="use_underline">False</property>
      <property name="use_markup">False</property>
      <property name="justify">GTK_JUSTIFY_LEFT</property>
      <property name="wrap">False</property>
      <property name="selectable">False</property>
      <property name="xalign">0.5</property>
      <property name="yalign">0.5</property>
      <property name="xpad">0</property>
      <property name="ypad">0</property>
    </widget>
    <packing>
      <property name="left_attach">0</property>
      <property name="right_attach">1</property>
      <property name="top_attach">1</property>
      <property name="bottom_attach">2</property>
      <property name="x_options">fill</property>
      <property name="y_options"></property>
    </packing>
  </child>

  <child>
    <widget class="GtkComboBox" id="combobox_linestyles">
      <property name="visible">True</property>

      <property name="items" translatable="yes"></property>
      <signal name="changed" handler="on_combobox_linestyle_changed" last_modification_time="Mon, 07 Nov
2005 20:43:56 GMT"/>
    </widget>
    <packing>
      <property name="left_attach">1</property>
      <property name="right_attach">2</property>
      <property name="top_attach">0</property>
      <property name="bottom_attach">1</property>
      <property name="y_options">fill</property>
    </packing>

```

```

</child>

<child>
  <widget class="GtkComboBox" id="combobox_markers">
    <property name="visible">True</property>
    <property name="items" translatable="yes"></property>
    <signal name="changed" handler="on_combobox_marker_changed" last_modification_time="Mon, 07 Nov
2005 20:43:14 GMT"/>
  </widget>
  <packing>
    <property name="left_attach">1</property>
    <property name="right_attach">2</property>
    <property name="top_attach">1</property>

    <property name="bottom_attach">2</property>
    <property name="x_options">fill</property>
    <property name="y_options">fill</property>
  </packing>
</child>

<child>
  <widget class="GtkColorButton" id="colorbutton_linestyle">
    <property name="visible">True</property>
    <property name="can_focus">True</property>
    <property name="use_alpha">True</property>
    <property name="title" translatable="yes">Line color</property>
    <property name="focus_on_click">True</property>
    <signal name="color_set" handler="on_colorbutton_linestyle_color_set" last_modification_time="Mon, 07 Nov
2005 22:13:40 GMT"/>
  </widget>
  <packing>
    <property name="left_attach">2</property>
    <property name="right_attach">3</property>
    <property name="top_attach">0</property>
    <property name="bottom_attach">1</property>
    <property name="x_options">fill</property>
    <property
name="y_options"></property>
  </packing>
</child>

<child>
  <widget class="GtkColorButton" id="colorbutton_markerface">
    <property name="visible">True</property>
    <property name="can_focus">True</property>
    <property name="use_alpha">False</property>
    <property name="title" translatable="yes">Marker color</property>
    <property name="focus_on_click">True</property>

```

```

    <signal name="color_set" handler="on_colorbutton_markerface_color_set" last_modification_time="Mon, 07
Nov 2005 22:14:00 GMT"/>
  </widget>
  <packing>
    <property name="left_attach">2</property>
    <property name="right_attach">3</property>
    <property name="top_attach">1</property>
    <property name="bottom_attach">2</property>
    <property name="x_options">fill</property>
    <property name="y_options"></property>
  </packing>
</child>

<child>
  <widget class="GtkLabel" id="label_linestyle">

  <property name="visible">True</property>
  <property name="label" translatable="yes">Line style</property>
  <property name="use_underline">False</property>
  <property name="use_markup">False</property>
  <property name="justify">GTK_JUSTIFY_LEFT</property>
  <property name="wrap">False</property>
  <property name="selectable">False</property>
  <property name="xalign">0.5</property>
  <property name="yalign">0.5</property>
  <property name="xpad">0</property>
  <property name="ypad">0</property>
  </widget>
  <packing>
    <property name="left_attach">0</property>
    <property name="right_attach">1</property>
    <property name="top_attach">0</property>
    <property name="bottom_attach">1</property>
    <property name="x_options">fill</property>
    <property name="y_options"></property>
  </packing>
</child>
</widget>
<packing>
  <property
name="padding">0</property>
  <property name="expand">True</property>
  <property name="fill">True</property>
</packing>
  </child>
</widget>
</child>
</widget>

```

```

</child>

<child>
<widget class="GtkLabel" id="fram_lineprops">
  <property name="visible">True</property>
  <property name="label" translatable="yes">&lt;b&gt;Line properties&lt;/b&gt;</property>
  <property name="use_underline">False</property>
  <property name="use_markup">True</property>
  <property name="justify">GTK_JUSTIFY_LEFT</property>
  <property name="wrap">False</property>
  <property name="selectable">False</property>
  <property name="xalign">0.5</property>
  <property name="yalign">0.5</property>
  <property name="xpad">0</property>
  <property name="ypad">0</property>
</widget>
<packing>
  <property name="type">label_item</property>
</packing>
  </child>
</widget>
<packing>
  <property name="padding">0</property>

  <property name="expand">True</property>
  <property name="fill">True</property>
</packing>
</child>
</widget>
<packing>
  <property name="padding">0</property>
  <property name="expand">True</property>
  <property name="fill">True</property>
</packing>
  </child>
</widget>
</child>
</widget>

```

</glade-interface>

Description:

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Applicable Images:

- All

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filename	source
0_weight.gif	D. Morrill
1_weight.gif	D. Morrill
2_weight.gif	D. Morrill
3_weight.gif	D. Morrill
4_weight.gif	D. Morrill
5_weight.gif	D. Morrill
6_weight.gif	D. Morrill
7_weight.gif	D. Morrill
8_weight.gif	D. Morrill
bottom_center_position.gif	D. Morrill
bottom_left_position.gif	D. Morrill
bottom_right_position.gif	D. Morrill
center_align.gif	D. Morrill
center_left_position.gif	D. Morrill
center_position.gif	D. Morrill
center_right_position.gif	D. Morrill
left_align.gif	D. Morrill
right_align.gif	D. Morrill
top_center_position.gif	D. Morrill
top_left_position.gif	D. Morrill
top_right_position.gif	D. Morrill
P6	
24 24	
255	
:u*lxnY~C~C~C}A @{ @ {?z?y?ab[,jdwMrwzyu } }zywtrY^d&Ytz@iPvtwplhebgBu1\w&YtzH~Mwl`] ZzWvUu`C uSt+jzKSyWv2az0`y/^x.]w-	
]vUwBuSt+jzLUyAsSt+jzJPHMLHA =w9s2o+i(d\zSt+jzDzILMKH~By=u6o.i(c!) UuSt+jz>uAxCzDzBy@w<t7p0 j*e#_]YyStSt+jz5n7p;r;^wNdwJ`tNfyIavE]rAZnGcStSt+jz,f.i0j0k0?U*C!OkStSt+jz#_}&a~(b(a~/>T*B'RmStSt+j gWvYyZyQn.<S*B*SnsStSt+j:vStStHfVfxScuy(QkStWw[W`Dd{D`uC`uC_tB_tB^sA^sA^sEg`n	
P6	
24 24	
255	
k<(v\$V"s*{Je&u#})(&#r){9&,01.,)&#m{X@&1;AB=4-)%!lzS{"}.<IQSLAd+#lz%u*4DSacXX(\$ #us	

```
{,6GWkq]$$ l|s>$+3CR^aVMt9&w&*.:jzqs$(+/{izr!%(+)}~yz!s"% '{
| wk{,w!#_~z
t(tK !! &
{ vnK u
|
xsk{2x
{
xt
n=+zD}z wso!m}[0}~~}
|z
xurol{QG~yyy
x vuspo,s6yD0vrqr)z-vS^A><}P
P6
# CREATOR: The GIMP's PNM Filter Version 1.0
16 16
255
```

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 Nuvola: LGPL  
 Crystal: LGPL  
 OOo: LGPL  
 GV: Gael Varoquaux: BSD-licensed

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```
-----
actor.png | Nuvola
camera.png | GV
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filter.png | Nuvola
lookuptable.png | OOo
mapper.png | Crystal
polydata.png | Nuvola
property.png | Eclipse
reader.png | Crystal
renderrer.png | Crystal
renderrerwindowinteractor.png | Nuvola
renderrerwindow.png | Crystal

source.png | OOo
texture.png | Eclipse
window.png | Eclipse
writer.png | GV
```



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```
#!/usr/bin/env bash
```

```
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
```

```
# This script will read the license file into memory, strip out the copyright, and then
```

```
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
```

```
set -e
```

```

calculate_md5_sum() {
local FILE="$1"

# Read the contents of the file into a variable
local raw_license_text=$(<"$FILE")

# Convert to lowercase
local lowercase_license_text="{raw_license_text,}"

# Remove anything before the beginning of the license
local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

# Replace line breaks (Windows or Linux) with a single space
local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

# Replace multiple spaces with a single space
local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

# Strip away any non-printable, non-whitespace characters
local clean_unprintable_license_text=$(tr
-cd '[:print:][:space:]' <<< "$normalized_license_text")

# Remove punctuation and special characters
local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

# Calculate the MD5 sum of the cleaned license text
local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

# Output the MD5 sum
echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
echo "Please provide a FILE as an argument."
exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"

These are my best guesses at where each icon came from,
this file should be updated whenever icons change.

```

filename	source
about.png	Python Software Foundation
application.ico	Gael Varoquaux

P6

24 24

255

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=====

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Any executables

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-->
```

Found in path(s):

\* /maven-archetype-webapp-1-0-jar-zip/maven-archetype-webapp-1-0-jar/META-INF/maven/org.apache.maven.archetypes/maven-archetype-webapp/pom.xml

# 1.334 pysnmp 2.0.8

## 1.334.1 Available under license :

UNRECOGNIZED LICENSE; MD5 sum: e47fdd252a9997f184589ab16b127d1c  
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## 1.335 pil 1.1.6

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```

Found in path(s):

```
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/Scripts/image2py.py
```

```
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/Scripts/gifmaker.py
```

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```
/*
```

```
* The Python Imaging Library
```

```
* $Id: Fill.c 2134 2004-10-06 08:55:20Z fredrik $
```

```
*
```

```
* fill image with constant pixel value
```

```
*
```

```
* history:
```

```
* 95-11-26 fl moved from Imaging.c
```

```
* 96-05-17 fl added radial fill, renamed wedge to linear
```

```
* 98-06-23 fl changed ImageFill signature
```

```
*
```

```
* Copyright (c) Secret Labs AB 1997-98. All rights reserved.
```

```
* Copyright (c) Fredrik Lundh 1995-96.
```

```
*
```

```
* See the README file for information on usage and redistribution.
```

```
*/
```

Found in path(s):

```
* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/libImaging/Fill.c
```

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```
/*
```

```
* The Python Imaging Library
```

```
* $Id: Filter.c 2134 2004-10-06 08:55:20Z fredrik $
```

```
*
```

```
* apply convolution kernel to image
*
* history:
* 1995-11-26 fl Created, supports 3x3 kernels
* 1995-11-27 fl Added 5x5 kernels, copy border
* 1999-07-26 fl Eliminated a few compiler warnings
* 2002-06-09 fl Moved kernel definitions to Python
* 2002-06-11 fl Support floating point kernels
* 2003-09-15 fl Added ImagingExpand helper
*
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*
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*/
```

Found in path(s):

```
*/imaging-1-1-6-2-tar-gz/Imaging-1.1.6/libImaging/Filter.c
No license file was found, but licenses were detected in source scan.
```

```
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```

Found in path(s):

```
*/imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/WmfImagePlugin.py
*/imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/GimpPaletteFile.py
No license file was found, but licenses were detected in source scan.
```

```
/*
```

```
* The Python Imaging Library
* $Id: Palette.c 2591 2005-12-08 21:25:29Z fredrik $
*
* imaging palette object
*
* history:
* 1996-05-05 fl Added to library
* 1996-05-27 fl Added colour mapping stuff
* 1997-05-12 fl Support RGBA palettes
* 2005-02-09 fl Removed grayscale entries from web palette
*
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*
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*/
```

Found in path(s):

```
*/imaging-1-1-6-2-tar-gz/Imaging-1.1.6/libImaging/Palette.c
```

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Found in path(s):

\* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/Image.py

\* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/TiffImagePlugin.py

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\*\*\*\*\*/

Found in path(s):

\* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/Sane/\_sane.c

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/\*

\* The Python Imaging Library

\* \$Id: ModeFilter.c 2134 2004-10-06 08:55:20Z fredrik \$

\*

\* mode filter

\*

\* history:

\* 2002-06-08 fl Created (based on code from IFUNC95)

\* 2004-10-05 fl Rewritten; use a simpler brute-force algorithm

\*

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\* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/PSDraw.py

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# image from the file; higher resolutions are encoded in a proprietary

Found in path(s):

\* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/PcdImagePlugin.py

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/\*

\* The Python Imaging Library

\* \$Id: RankFilter.c 2929 2006-11-22 21:12:55Z fredrik \$

\*

\* min, max, median filters

\*

\* history:

\* 2002-06-08 fl Created

\*

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\*

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\*/

/\* Fast rank algorithm (due to Wirth), based on public domain code

by Nicolas Devillard, available at <http://ndevilla.free.fr> \*/

Found in path(s):

\* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/libImaging/RankFilter.c

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STARTFONT 2.1

COMMENT \$XConsortium: courB08.bdf,v 1.5 94/04/10 21:46:11 gildea Exp \$

COMMENT

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COMMENT  
COMMENT  
FONT -Adobe-Courier-Bold-R-Normal--11-80-100-100-M-60-ISO8859-1  
SIZE 8 100 100  
FONTBOUNDINGBOX 8 11 -1 -2  
STARTPROPERTIES  
22  
COMMENT Begin LogicalFontDescription  
FONTNAME\_REGISTRY ""  
FAMILY\_NAME "Courier"  
FOUNDRY "Adobe"  
WEIGHT\_NAME "Bold"  
SLANT "R"  
SETWIDTH\_NAME "Normal"  
ADD\_STYLE\_NAME ""  
PIXEL\_SIZE 11  
POINT\_SIZE 80  
RESOLUTION\_X 100  
RESOLUTION\_Y 100  
SPACING "M"  
AVERAGE\_WIDTH 60  
CHARSET\_REGISTRY "ISO8859"  
CHARSET\_ENCODING "1"  
COMMENT END LogicalFontDescription  
CHARSET\_COLLECTIONS "ASCII ISO8859-1 ADOBE-STANDARD"  
FACE\_NAME "Courier Bold"

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COMMENT \*\*\*\*\* end of inserted font properties

FONT\_ASCENT 8

FONT\_DESCENT 2

CAP\_HEIGHT 6

X\_HEIGHT 5

ENDPROPERTIES

CHARS 194

STARTCHAR space

ENCODING 32

SWIDTH 600 0

DWIDTH 6 0

BBX 1 1 0 0

BITMAP

00

ENDCHAR

STARTCHAR exclam

ENCODING 33

SWIDTH 600 0

DWIDTH 6 0

BBX 2 6 1 0

BITMAP

C0

C0

C0

C0

00

C0

ENDCHAR

STARTCHAR quotedbl

ENCODING 34

SWIDTH 600 0

DWIDTH 6 0

BBX 3 3 1 3

BITMAP

A0

A0

A0

ENDCHAR

STARTCHAR numbersign

ENCODING 35

SWIDTH 600 0

DWIDTH 6 0

BBX 5 8 0 -1

BITMAP

50

50

F8

50  
50  
F8  
50  
50  
ENDCHAR  
STARTCHAR  
dollar  
ENCODING 36  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 9 0 -1  
BITMAP  
20  
78  
C8  
F0  
78  
18  
D8  
F0  
20  
ENDCHAR  
STARTCHAR percent  
ENCODING 37  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 7 0 0  
BITMAP  
E0  
A8  
F0  
20  
78  
A8  
38  
ENDCHAR  
STARTCHAR ampersand  
ENCODING 38  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 6 -1 0  
BITMAP  
38  
60  
30  
7C  
D8

7C  
ENDCHAR  
STARTCHAR quoteright  
ENCODING 39  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 3 3 1 4  
BITMAP  
60  
40  
80  
ENDCHAR  
STARTCHAR parenleft  
ENCODING 40  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 3 8 1 -1  
BITMAP  
20  
40  
C0  
C0  
C0  
C0  
40  
20  
ENDCHAR  
STARTCHAR parenright  
ENCODING 41  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 3 8 1 -1  
BITMAP  
80  
40  
60  
60  
60  
60  
40  
80  
ENDCHAR  
STARTCHAR asterisk  
ENCODING 42  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 4 4 0 3  
BITMAP

20  
F0  
60  
90  
ENDCHAR  
STARTCHAR plus  
ENCODING 43  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 5 0 1  
BITMAP  
20  
20  
F8  
20  
20  
ENDCHAR  
STARTCHAR comma  
ENCODING 44  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 3 3 1 -2  
BITMAP  
60  
40  
80  
ENDCHAR  
STARTCHAR minus  
ENCODING 45  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 1 0 3  
BITMAP  
F8  
ENDCHAR  
STARTCHAR  
period  
ENCODING 46  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 2 1 1 0  
BITMAP  
C0  
ENDCHAR  
STARTCHAR slash  
ENCODING 47  
SWIDTH 600 0  
DWIDTH 6 0

BBX 4 8 1 -1  
BITMAP  
10  
10  
20  
20  
40  
40  
80  
80  
ENDCHAR  
STARTCHAR zero  
ENCODING 48  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 7 0 0  
BITMAP  
70  
D8  
D8  
D8  
D8  
D8  
70  
ENDCHAR  
STARTCHAR one  
ENCODING 49  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 7 0 0  
BITMAP  
30  
F0  
30  
30  
30  
30  
FC  
ENDCHAR  
STARTCHAR two  
ENCODING 50  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 7 0 0  
BITMAP  
70  
D8  
18

30  
60  
D8  
F8  
ENDCHAR  
STARTCHAR three  
ENCODING 51  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 7 0 0  
BITMAP  
70  
D8  
18  
70  
18  
D8  
70  
ENDCHAR  
STARTCHAR four  
ENCODING 52  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 7 0 0  
BITMAP  
18  
38  
58  
D8  
FC  
18  
18  
ENDCHAR  
STARTCHAR five  
ENCODING 53  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 7 0 0  
BITMAP  
F8  
C0  
F0  
D8  
18  
98  
F0  
ENDCHAR  
STARTCHAR six

ENCODING 54  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 7 0 0  
BITMAP  
70  
D8  
C0  
F0  
D8  
D8  
70  
ENDCHAR  
STARTCHAR seven  
ENCODING 55  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 7 0 0  
BITMAP  
F8  
D8  
18  
30  
30  
60  
60  
ENDCHAR  
STARTCHAR  
eight  
ENCODING 56  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 7 0 0  
BITMAP  
70  
D8  
D8  
70  
D8  
D8  
70  
ENDCHAR  
STARTCHAR nine  
ENCODING 57  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 7 0 0  
BITMAP

70  
D8  
D8  
78  
18  
D8  
70  
ENDCHAR  
STARTCHAR colon  
ENCODING 58  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 2 4 1 0  
BITMAP  
C0  
00  
00  
C0  
ENDCHAR  
STARTCHAR semicolon  
ENCODING 59  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 3 6 0 -2  
BITMAP  
60  
00  
00  
60  
40  
80  
ENDCHAR  
STARTCHAR less  
ENCODING 60  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 4 5 0 1  
BITMAP  
30  
60  
C0  
60  
30  
ENDCHAR  
STARTCHAR equal  
ENCODING 61  
SWIDTH 600 0  
DWIDTH 6 0

BBX 4 3 0 2  
BITMAP  
F0  
00  
F0  
ENDCHAR  
STARTCHAR greater  
ENCODING 62  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 4 5 1 1  
BITMAP  
C0  
60  
30  
60  
C0  
ENDCHAR  
STARTCHAR question  
ENCODING 63  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 6 0 0  
BITMAP  
70  
98  
30  
60  
00  
60  
ENDCHAR  
STARTCHAR at  
ENCODING 64  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 8 0 -1  
BITMAP  
70  
C8  
98  
A8  
A8  
9C  
C0  
70  
ENDCHAR  
STARTCHAR A  
ENCODING 65

SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 6 -1 0  
BITMAP  
78  
38  
28  
7C  
6C  
EE  
ENDCHAR  
STARTCHAR B  
ENCODING 66  
SWIDTH 600 0  
DWIDTH  
6 0  
BBX 6 6 -1 0  
BITMAP  
F8  
6C  
78  
6C  
6C  
F8  
ENDCHAR  
STARTCHAR C  
ENCODING 67  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 6 0 0  
BITMAP  
78  
D8  
C0  
C0  
D8  
70  
ENDCHAR  
STARTCHAR D  
ENCODING 68  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 6 -1 0  
BITMAP  
F8  
6C  
6C  
6C

6C  
F8  
ENDCHAR  
STARTCHAR E  
ENCODING 69  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 6 -1 0  
BITMAP  
FC  
60  
78  
60  
6C  
FC  
ENDCHAR  
STARTCHAR F  
ENCODING 70  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 6 -1 0  
BITMAP  
FC  
60  
78  
60  
60  
F0  
ENDCHAR  
STARTCHAR G  
ENCODING 71  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 6 0 0  
BITMAP  
70  
D8  
C0  
F8  
D8  
78  
ENDCHAR  
STARTCHAR H  
ENCODING 72  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 6 -1 0  
BITMAP

EE  
6C  
7C  
6C  
6C  
EE  
ENDCHAR  
STARTCHAR I  
ENCODING 73  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 4 6 0 0  
BITMAP  
F0  
60  
60  
60  
60  
F0  
ENDCHAR  
STARTCHAR J  
ENCODING 74  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 6 -1 0  
BITMAP  
3C  
18  
18  
D8  
D8  
70  
ENDCHAR  
STARTCHAR K  
ENCODING 75  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 6 -1 0  
BITMAP  
EC  
68  
70  
78  
6C  
F6  
ENDCHAR  
STARTCHAR L  
ENCODING 76

SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 6 -1 0  
BITMAP  
F0  
60  
60  
60  
6C  
FC  
ENDCHAR  
STARTCHAR M  
ENCODING  
77  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 6 -1 0  
BITMAP  
C4  
6C  
6C  
7C  
54  
D4  
ENDCHAR  
STARTCHAR N  
ENCODING 78  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 6 -1 0  
BITMAP  
EE  
74  
74  
6C  
6C  
E4  
ENDCHAR  
STARTCHAR O  
ENCODING 79  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 6 0 0  
BITMAP  
70  
D8  
D8  
D8

D8  
70  
ENDCHAR  
STARTCHAR P  
ENCODING 80  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 6 -1 0  
BITMAP  
F8  
6C  
6C  
78  
60  
F0  
ENDCHAR  
STARTCHAR Q  
ENCODING 81  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 7 0 -1  
BITMAP  
70  
D8  
D8  
D8  
D8  
70  
18  
ENDCHAR  
STARTCHAR R  
ENCODING 82  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 6 -1 0  
BITMAP  
F8  
6C  
6C  
78  
6C  
F6  
ENDCHAR  
STARTCHAR S  
ENCODING 83  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 6 0 0

BITMAP  
78  
C8  
F0  
38  
98  
F0  
ENDCHAR  
STARTCHAR T  
ENCODING 84  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 6 -1 0  
BITMAP  
FC  
B4  
30  
30  
30  
78  
ENDCHAR  
STARTCHAR U  
ENCODING 85  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 6 -1 0  
BITMAP  
EE  
6C  
6C  
6C  
6C  
38  
ENDCHAR  
STARTCHAR V  
ENCODING 86  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 6 -1 0  
BITMAP  
EE  
6C  
28  
38  
38  
10  
ENDCHAR  
STARTCHAR W

ENCODING 87

SWIDTH 600 0

DWIDTH 6 0

BBX 7 6 -1 0

BITMAP

D6

54

54

7C

38

28

ENDCHAR

STARTCHAR

X

ENCODING 88

SWIDTH 600 0

DWIDTH 6 0

BBX 6 6 0 0

BITMAP

CC

78

30

30

78

CC

ENDCHAR

STARTCHAR Y

ENCODING 89

SWIDTH 600 0

DWIDTH 6 0

BBX 7 6 -1 0

BITMAP

E6

66

3C

18

18

3C

ENDCHAR

STARTCHAR Z

ENCODING 90

SWIDTH 600 0

DWIDTH 6 0

BBX 5 6 0 0

BITMAP

F8

D8

30

60  
D8  
F8  
ENDCHAR  
STARTCHAR bracketleft  
ENCODING 91  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 3 8 1 -1  
BITMAP  
E0  
C0  
C0  
C0  
C0  
C0  
C0  
C0  
E0  
ENDCHAR  
STARTCHAR backslash  
ENCODING 92  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 4 8 0 -1  
BITMAP  
80  
80  
40  
40  
20  
20  
10  
10  
ENDCHAR  
STARTCHAR bracketright  
ENCODING 93  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 3 8 1 -1  
BITMAP  
E0  
60  
60  
60  
60  
60  
60  
E0

ENDCHAR  
STARTCHAR asciicircum  
ENCODING 94  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 3 0 4  
BITMAP  
20  
70  
D8  
ENDCHAR  
STARTCHAR underscore  
ENCODING 95  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 1 0 -2  
BITMAP  
FC  
ENDCHAR  
STARTCHAR quoteleft  
ENCODING 96  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 3 3 1 4  
BITMAP  
C0  
40  
20  
ENDCHAR  
STARTCHAR a  
ENCODING 97  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 5 0 0  
BITMAP  
70  
D8  
78  
D8  
FC  
ENDCHAR  
STARTCHAR  
b  
ENCODING 98  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 7 -1 0  
BITMAP

E0  
60  
78  
6C  
6C  
6C  
F8  
ENDCHAR  
STARTCHAR c  
ENCODING 99  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 5 0 0  
BITMAP  
70  
D8  
C0  
D8  
70  
ENDCHAR  
STARTCHAR d  
ENCODING 100  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 7 0 0  
BITMAP  
38  
18  
78  
D8  
D8  
D8  
7C  
ENDCHAR  
STARTCHAR e  
ENCODING 101  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 5 0 0  
BITMAP  
70  
D8  
F8  
C0  
78  
ENDCHAR  
STARTCHAR f  
ENCODING 102

SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 7 0 0  
BITMAP  
38  
60  
F8  
60  
60  
60  
F8  
ENDCHAR  
STARTCHAR g  
ENCODING 103  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 7 0 -2  
BITMAP  
6C  
D8  
D8  
D8  
78  
18  
F0  
ENDCHAR  
STARTCHAR h  
ENCODING 104  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 7 -1 0  
BITMAP  
E0  
60  
78  
6C  
6C  
6C  
6C  
ENDCHAR  
STARTCHAR i  
ENCODING 105  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 7 0 0  
BITMAP  
30  
00

F0  
30  
30  
30  
FC  
ENDCHAR  
STARTCHAR j  
ENCODING 106  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 4 9 0 -2  
BITMAP  
30  
00  
F0  
30  
30  
30  
30  
30  
30  
E0  
ENDCHAR  
STARTCHAR k  
ENCODING 107  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 7 -1 0  
BITMAP  
E0  
60  
6C  
78  
70  
78  
6E  
ENDCHAR  
STARTCHAR l  
ENCODING 108  
SWIDTH 600  
0  
DWIDTH 6 0  
BBX 6 7 0 0  
BITMAP  
F0  
30  
30  
30  
30

30  
FC  
ENDCHAR  
STARTCHAR m  
ENCODING 109  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 5 -1 0  
BITMAP  
F8  
7C  
54  
54  
54  
ENDCHAR  
STARTCHAR n  
ENCODING 110  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 5 -1 0  
BITMAP  
D8  
6C  
6C  
6C  
6C  
ENDCHAR  
STARTCHAR o  
ENCODING 111  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 5 0 0  
BITMAP  
70  
D8  
D8  
D8  
70  
ENDCHAR  
STARTCHAR p  
ENCODING 112  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 7 -1 -2  
BITMAP  
F8  
6C  
6C

6C  
78  
60  
F0  
ENDCHAR  
STARTCHAR q  
ENCODING 113  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 7 0 -2  
BITMAP  
6C  
D8  
D8  
D8  
78  
18  
3C  
ENDCHAR  
STARTCHAR r  
ENCODING 114  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 5 0 0  
BITMAP  
DC  
74  
60  
60  
F0  
ENDCHAR  
STARTCHAR s  
ENCODING 115  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 5 0 0  
BITMAP  
78  
E0  
78  
1C  
F8  
ENDCHAR  
STARTCHAR t  
ENCODING 116  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 7 0 0

BITMAP  
60  
60  
F8  
60  
60  
6C  
38  
ENDCHAR  
STARTCHAR u  
ENCODING 117  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 5 -1 0  
BITMAP  
EC  
6C  
6C  
6C  
3E  
ENDCHAR  
STARTCHAR v  
ENCODING 118  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 5 -1 0  
BITMAP  
EC  
6C  
38  
38  
10  
ENDCHAR  
STARTCHAR  
w  
ENCODING 119  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 5 -1 0  
BITMAP  
D6  
54  
7C  
3C  
28  
ENDCHAR  
STARTCHAR x  
ENCODING 120

SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 5 0 0  
BITMAP  
EC  
78  
30  
78  
DC  
ENDCHAR  
STARTCHAR y  
ENCODING 121  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 7 -1 -2  
BITMAP  
EE  
6C  
6C  
28  
38  
30  
E0  
ENDCHAR  
STARTCHAR z  
ENCODING 122  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 5 0 0  
BITMAP  
F8  
B0  
60  
D8  
F8  
ENDCHAR  
STARTCHAR braceleft  
ENCODING 123  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 4 8 1 -1  
BITMAP  
30  
60  
60  
C0  
60  
60

60  
30  
ENDCHAR  
STARTCHAR bar  
ENCODING 124  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 1 7 2 -1  
BITMAP  
80  
80  
80  
80  
80  
80  
80  
80  
ENDCHAR  
STARTCHAR braceright  
ENCODING 125  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 4 8 0 -1  
BITMAP  
C0  
60  
60  
30  
60  
60  
60  
C0  
ENDCHAR  
STARTCHAR asciitilde  
ENCODING 126  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 2 0 3  
BITMAP  
68  
B0  
ENDCHAR  
STARTCHAR exclamdown  
ENCODING 161  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 2 7 1 -2  
BITMAP  
C0

00  
C0  
C0  
C0  
C0  
C0  
ENDCHAR  
STARTCHAR cent  
ENCODING 162  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 8 0 -1  
BITMAP  
20  
20  
78  
C8  
C0  
78  
20  
20  
ENDCHAR  
STARTCHAR  
sterling  
ENCODING 163  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 7 0 0  
BITMAP  
38  
68  
20  
F8  
20  
64  
F8  
ENDCHAR  
STARTCHAR currency  
ENCODING 164  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 5 0 1  
BITMAP  
88  
70  
50  
70  
88

ENDCHAR  
STARTCHAR yen  
ENCODING 165  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 7 0 0  
BITMAP  
CC  
48  
FC  
30  
FC  
30  
78  
ENDCHAR  
STARTCHAR brokenbar  
ENCODING 166  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 1 9 2 -2  
BITMAP  
80  
80  
80  
80  
00  
80  
80  
80  
80  
ENDCHAR  
STARTCHAR section  
ENCODING 167  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 8 0 -1  
BITMAP  
78  
48  
60  
90  
48  
30  
90  
F0  
ENDCHAR  
STARTCHAR dieresis  
ENCODING 168

SWIDTH 600 0  
DWIDTH 6 0  
BBX 3 1 1 5  
BITMAP  
A0  
ENDCHAR  
STARTCHAR copyright  
ENCODING 169  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 7 0 0  
BITMAP  
30  
48  
B4  
A4  
B4  
48  
30  
ENDCHAR  
STARTCHAR ordfeminine  
ENCODING 170  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 4 5 1 2  
BITMAP  
E0  
10  
D0  
00  
F0  
ENDCHAR  
STARTCHAR guillemotleft  
ENCODING 171  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 5 -1 0  
BITMAP  
36  
6C  
D8  
6C  
36  
ENDCHAR  
STARTCHAR logicalnot  
ENCODING 172  
SWIDTH 600 0  
DWIDTH 6 0

BBX 5 3 0 2  
BITMAP  
F8  
08  
08  
ENDCHAR  
STARTCHAR  
hyphen  
ENCODING 173  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 1 0 3  
BITMAP  
F8  
ENDCHAR  
STARTCHAR registered  
ENCODING 174  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 7 0 0  
BITMAP  
38  
44  
BA  
B2  
AA  
44  
38  
ENDCHAR  
STARTCHAR macron  
ENCODING 175  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 4 1 0 5  
BITMAP  
F0  
ENDCHAR  
STARTCHAR degree  
ENCODING 176  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 4 3 0 4  
BITMAP  
60  
90  
60  
ENDCHAR  
STARTCHAR plusminus

ENCODING 177  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 5 6 0 0  
BITMAP  
20  
20  
F8  
20  
00  
F8  
ENDCHAR  
STARTCHAR twosuperior  
ENCODING 178  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 3 4 1 3  
BITMAP  
60  
A0  
40  
E0  
ENDCHAR  
STARTCHAR threesuperior  
ENCODING 179  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 3 4 1 3  
BITMAP  
E0  
40  
20  
C0  
ENDCHAR  
STARTCHAR acute  
ENCODING 180  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 2 2 2 5  
BITMAP  
40  
80  
ENDCHAR  
STARTCHAR mu  
ENCODING 181  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 7 -1 -2

BITMAP  
EC  
6C  
6C  
6C  
7E  
40  
40  
ENDCHAR  
STARTCHAR paragraph  
ENCODING 182  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 6 8 0 -1  
BITMAP  
7C  
A8  
A8  
68  
28  
28  
28  
6C  
ENDCHAR  
STARTCHAR periodcentered  
ENCODING 183  
SWIDTH  
600 0  
DWIDTH 6 0  
BBX 2 1 1 3  
BITMAP  
C0  
ENDCHAR  
STARTCHAR cedilla  
ENCODING 184  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 3 3 1 -2  
BITMAP  
40  
20  
C0  
ENDCHAR  
STARTCHAR onesuperior  
ENCODING 185  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 3 4 1 3

BITMAP  
C0  
40  
40  
E0  
ENDCHAR  
STARTCHAR ordmasculine  
ENCODING 186  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 4 5 1 2  
BITMAP  
60  
90  
60  
00  
F0  
ENDCHAR  
STARTCHAR guillemotright  
ENCODING 187  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 5 -1 0  
BITMAP  
D8  
6C  
36  
6C  
D8  
ENDCHAR  
STARTCHAR onequarter  
ENCODING 188  
SWIDTH 600 0  
DWIDTH 6 0  
BBX 7 7 -1 0  
BITMAP  
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ENCODING 241

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ENCODING 243

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SWIDTH 600 0

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BITMAP  
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ENDCHAR

ENDFONT

Found in path(s):

\* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/Images/courB08.bdf

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

# version.

Found in path(s):

\* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/JpegImagePlugin.py

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The Python Imaging Library

\$Id: README 2939 2006-12-03 13:43:51Z fredrik \$

Release 1.1.6 (December 3, 2006)

=====  
The Python Imaging Library 1.1.6  
=====

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-----  
Introduction  
-----

The Python Imaging Library (PIL) adds image processing capabilities to your Python environment. This library provides extensive file format support, an efficient internal representation, and powerful image processing capabilities.

This source kit has been built and tested on Windows NT/2000/XP, Mac OS X, and most major Unix platforms (including Alpha, Solaris, and Intel systems). We believe that it should work on most modern platforms (people are using it on Crays, after all ;-)

The main distribution site for this software is:

<http://www.pythonware.com/products/pil/>

That site also contains information about free and commercial support options, PIL add-ons, answers to frequently asked questions, and more.

Development versions (alphas, betas) are available here:

<http://effbot.org/downloads/>

The PIL handbook is not included in this distribution; to get the latest version, check:

<http://www.pythonware.com/library/>

<http://effbot.org/books/imagingbook/> (drafts)

For installation and licensing details, see below.

-----  
Support Options  
-----

+ Commercial Support

Secret Labs (PythonWare) offers support contracts for companies using the Python Imaging Library in commercial applications, and in mission-critical environments. The support contract includes technical support, bug fixes, extensions to the PIL library, sample applications, and more.

For the full story, check:

<http://www.pythonware.com/products/pil/support.htm>

+ Free Support

For support and general questions on the Python Imaging Library, send e-mail to the Image SIG mailing list:

[image-sig@python.org](mailto:image-sig@python.org)

You can join the Image SIG by sending a mail to:

image-sig-request@python.org

Put "subscribe" in the message body to automatically subscribe to the list, or "help" to get additional information. Alternatively, you can send your questions to the Python mailing list, python-list@python.org, or post them to the newsgroup comp.lang.python. **DO NOT SEND SUPPORT QUESTIONS TO PYTHONWARE ADDRESSES.**

-----  
Software License  
-----

The  
Python Imaging Library is

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-----  
Build instructions (all platforms)  
-----

For a list of changes in this release, see the CHANGES document.

0. If you're in a hurry, try this:

```
$ gunzip Imaging-1.1.6.tar.gz
$ tar xvf Imaging-1.1.6.tar
$ cd Imaging-1.1.6
$ python setup.py install
```

If you prefer to know what you're doing, read on.

1. Prerequisites.

If you need any of the features described below, make sure you have the necessary libraries before building PIL.

feature	library
---------	---------

-----

JPEG support	libjpeg (6a or 6b)
--------------	--------------------

<http://www.ijg.org>  
<http://www.ijg.org/files/jpegsrc.v6b.tar.gz>  
<ftp://ftp.uu.net/graphics/jpeg/>

PNG support	zlib (1.2.3 or later is recommended)
-------------	--------------------------------------

<http://www.gzip.org/zlib/>

OpenType/TrueType support	freetype2 (2.1.3 or later is recommended)
---------------------------	---

<http://www.freetype.org>  
<http://freetype.sourceforge.net>

If you have a recent Linux version, the libraries provided with the operating system usually work just fine. If some library is missing, installing a prebuilt version (jpeg-devel, zlib-devel, etc) is usually easier than building from source.

If you're using Mac OS X, you can use the 'fink' tool to install missing libraries (also see the Mac OS X section below).

Similar tools are available for many other platforms (such as 'apt-get' for Debian).

2. To build under Python 1.5.2, you need to install the stand-alone

version of the distutils library:

<http://www.python.org/sigs/distutils-sig/download.html>

For newer releases, the distutils library is included in the Python standard library.

3. If you didn't build Python from sources, make sure you have Python's build support files on your machine. If you've downloaded a prebuilt package (e.g. a Linux RPM), you probably need additional developer packages. Look for packages named "python-devel", "py-dev", or similar.
4. When you have everything you need, unpack the PIL distribution (the file `Imaging-1.1.6.tar.gz`) in your Python extensions directory (if you have one, that is. If not, feel free to unpack it in any other suitable directory).

```
$ cd Python-2.4/Extensions # example
$ gunzip Imaging-1.1.6.tar.gz
$ tar xvf Imaging-1.1.6.tar
```

5. Build the library. We recommend that you do an in-place build, and run the self test before installing.

```
$ cd Imaging-1.1.6
$ python setup.py build_ext -i
$ python selftest.py
```

When the build finishes, a summary report is shown. Make sure that the optional components you need are included.

```
-----
PIL 1.1.6 BUILD SUMMARY
-----
*** TKINTER support not available (Tcl/Tk 8.3 libraries needed)
--- JPEG support ok
--- ZLIB (PNG/ZIP) support ok
--- FREETYPE support ok
-----
```

If the build script won't find a given component, you can edit the `setup.py` file and set the appropriate `ROOT` variable. For details, see instructions in the file.

6. If the `setup.py` and `selftest.py` commands finish without any errors, you're ready to install the library:

```
$ python setup.py install
```

(depending on how Python has been installed on your machine, you might have to log in as a superuser to run the 'install' command.)

-----  
Additional notes for Mac OS X  
-----

On Mac OS X you will usually install additional software such as libjpeg or freetype with the "fink" tool, and then it ends up in "/sw". If you have installed the libraries elsewhere, you may have to tweak the "setup.py" file before building.

-----  
Additional notes for Windows  
-----

On Windows, you need to tweak the ROOT settings in the "setup.py" file, to make it find the external libraries. See comments in the file for details.

Make sure to build PIL and the external libraries with the same runtime linking options as was used for the Python interpreter (usually /MD, under Visual Studio).

Note that most Python distributions include libraries compiled for Microsoft Visual Studio. To build extensions using other tool chains, see the "Using non-Microsoft compilers on Windows" section in the distutils handbook:

<http://www.python.org/doc/current/inst/non-ms-compilers.html>

For additional information on how to build extensions using the popular MinGW compiler, see:

<http://mingw.org> (compiler)

<http://sebsauvage.net/python/mingw.html> (build instructions)

<http://sourceforge.net/projects/gnuwin32> (prebuilt libraries)

Found in path(s):

\* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/README

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

# Released to the public domain 16-Jan-2001,

Found in path(s):

\* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/doctest.py

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

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Found in path(s):

\* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/PIL/PdfImagePlugin.py

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

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\* The Python Imaging Library

\* \$Id: Quant.c 2284 2005-02-07 20:58:58Z fredrik \$

\*

\* image quantizer

\*

\* history:

\* 1998-09-10 tjs Contributed

\* 1998-12-29 fl Added to PIL 1.0b1

\* 2004-02-21 fl Fixed bogus free() on quantization error

\* 2005-02-07 fl Limit number of colors to 256

\*

\* Written by Toby J Sargeant <tjs@longford.cs.monash.edu.au>.

\*

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\* /imaging-1-1-6-2-tar-gz/Imaging-1.1.6/libImaging/Quant.c

## 1.336 golang 1.17.9

## 1.336.1 Available under license :

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```
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*/grpc-protobuf-1-28-0-sources-1-jar/io/grpc/protobuf/StatusProto.java
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## 1.339 pcre 10.40

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## 1.340 xml-apis 1.3.04

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## 1.343 pycparser 2.20

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

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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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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## END OF TERMS AND CONDITIONS

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

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

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

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

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You should have received a copy of the GNU Library General Public License along with this library; 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.

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

Here is a sample; alter the names:

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

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

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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.]

### Preamble

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

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

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

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the

recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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

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

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

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

special circumstances.

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

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

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

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

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limitation in the term "modification".)

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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.

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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.

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these

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```
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```

```
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```

```
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```

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Version 3, 29 June 2007

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school, if any, to sign a "copyright disclaimer" for the library, if  
necessary. Here is a sample; alter  
the names:

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

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

That's all there is to it!

@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

gfdl(7), fsf-funding(7).

@c man end

@c man begin COPYRIGHT

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## 1.350 pep517 0.8.2

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## 1.358 meson 0.56.0

### 1.358.1 Available under license :

```
project('bar', 'c', license: 'Apache')
```

```
executable('bar', 'bar.c')
```

```
license = meson.project_license()[0]
if license != 'Apache'
    error("The license should be Apache, but it is: " + license)
endif
```

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# 1.359 distlib 0.2.9.post0

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### A. HISTORY OF THE SOFTWARE

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

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

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

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

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

2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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/protobuf-java-2-2-0-sources-1-jar/com/google/protobuf/BlockingRpcChannel.java  
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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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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\*/

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\* /json-20131018-sources-jar/org/json/zip/BitInputStream.java

\* /json-20131018-sources-jar/org/json/zip/PostMortem.java

\* /json-20131018-sources-jar/org/json/zip/MapKeep.java

\* /json-20131018-sources-jar/org/json/zip/JSONzip.java

\* /json-20131018-sources-jar/org/json/zip/Compressor.java

\* /json-20131018-sources-jar/org/json/zip/BitOutputStream.java

\* /json-20131018-sources-jar/org/json/Kim.java

\* /json-20131018-sources-jar/org/json/zip/TrieKeep.java

\* /json-20131018-sources-jar/org/json/zip/Huff.java

\* /json-20131018-sources-jar/org/json/zip/Keep.java

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\* /json-20131018-sources-jar/org/json/JSONML.java

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- \* org.eclipse.jetty.orbit:javax.security.auth.message

The following dependencies

are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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- \* org.apache.tomcat:tomcat-api
- \* org.apache.tomcat:tomcat-util-scan

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The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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# 1.378 timezone\_checker 1.0.0-000

## 1.378.1 Available under license :

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Found in path(s):

\* /timezone-checker-tar/b79c0f3c928a609ac1b0968cfb9573ce.py

# 1.379 savi\_api 0.0.0

## 1.379.1 Available under license :

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/libsavi-so-3-2-07-358-zip/libsavi.so.3.2.07.358.1: binary file matches

Found in path(s):

\* /bin/grep

# 1.380 bsddb3 4.4.2

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\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/bsddb/test/test\_dbtables.py

\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/bsddb/dbutils.py

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Metadata-Version: 1.0

Name: bsddb3

Version: 4.4.2

Summary: Python interface for BerkeleyDB 3.2 thru 4.4

Home-page: <http://pybsddb.sf.net/>

Author: Robin Dunn, Gregory P. Smith, Andrew Kuchling, Barry Warsaw

Author-email: [pybsddb-users@lists.sourceforge.net](mailto:pybsddb-users@lists.sourceforge.net)

License: UNKNOWN

Description: This module provides a nearly complete wrapping of the Sleepycat C API for the Database Environment, Database, Cursor, and Transaction objects, and each of these is exposed as a Python

type in the bsddb3.db module. The database objects can use various access methods: btree, hash, recno, and queue. For the first time all of these are fully supported in the Python wrappers. Please see the documents in the docs directory of the source distribution or at the website for more details on the types and methods provided.

Platform: UNKNOWN

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\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/env\_set\_lk\_max.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/set\_func\_map.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/arch/bigpic.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/db\_truncate.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/dumpload/utility.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/utility/db\_printlog.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/txn\_commit.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/set\_func\_open.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/intro/need.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.2/disk.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/xa/xa\_intro.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/db\_verify.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.1/config.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/dbc\_put.html  
\*  
/bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/txn/other.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/db\_del.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/env\_set\_data\_dir.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am/truncate.html  
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\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/program/scope.html  
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\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/db\_key\_range.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/lock\_put.html  
\*  
/bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am\_conf/re\_source.html  
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\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am\_misc/faq.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/arch/progmodel.html  
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am/verify.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.2/incomplete.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.3/rpc.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/db\_set\_flags.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/env\_set\_tx\_max.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/lock\_detect.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/intro/terrain.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/set\_func\_rename.html
- \*
- /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/db\_stat.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/close.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/lock/stdmode.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.3/conflict.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/build\_unix/intro.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am\_misc/perm.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/intro/distrib.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/set\_func\_sleep.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/faq.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/tcl/using.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/env\_remove.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.3/memp\_fget.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/env/error.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/reclimit.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.1/set\_feedback.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/set\_func\_unlink.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.3/bigfile.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/simple\_tut/intro.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am/curclose.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/xa/intro.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/lock/config.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/inc.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.2/intro.html

- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am\_conf/bt\_compare.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/app.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.1/disk.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/hsearch.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.2.0/system.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/env\_close.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/lock\_vec.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/db\_open.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/db\_get.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/simple\_tut/close.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/dbt.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/txn/limits.html
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- /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am/opensub.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/program/copy.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/xa.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/tcl/intro.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/program/version.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/db\_set\_feedback.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/env/intro.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/checkpoint.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/txn\_checkpoint.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.2/handle.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.1/tmp.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/db\_set\_errcall.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.1/toc.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/dumpload/format.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am/stat.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.2/notfound.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/c\_index.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/env\_open.html
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\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/env\_set\_tas\_spins.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/install/multiple.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/rpc/client.html  
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/bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/utility/db\_deadlock.html  
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\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/env\_set\_feedback.html  
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\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/build\_unix/solaris.html  
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\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/build\_vxworks/intro.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/txn/config.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/arch/utilities.html  
\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/db\_set\_bt\_minkey.html

- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/env\_set\_tx\_timestamp.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/build\_win/intro.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.1/btstat.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am/curput.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/txn\_begin.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/java/faq.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/install/rpm.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am\_misc/partial.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/build\_win/test.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am/delete.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/program/byteorder.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/mp/intro.html
- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/simple\_tut/put.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/db\_set\_bt\_prefix.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/env\_create.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/set\_func\_seek.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/intro.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/set\_func\_close.html
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- \* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api\_c/set\_func\_dirfree.html
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<title>Challenges in Embedded Database System Administration</title>

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<h1>Challenges in Embedded Database System Administration</h1>

<h3>Margo Seltzer, Harvard University</h3>

<h3>Michael Olson, Sleepycat Software, Inc.</h3>

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<p>

Database configuration and maintenance have historically been complex tasks,  
often

requiring expert knowledge of database design and application behavior.

In an embedded environment, it is not feasible to require such expertise and ongoing database maintenance.

This paper discusses the database administration challenges posed by embedded systems and describes how the Berkeley DB architecture addresses these challenges.

## 1. Introduction

Embedded systems provide a combination of opportunities and challenges in application and system configuration and management.

As an embedded system is most often dedicated to a single application or small set of tasks, the operating conditions of the system are typically better understood than those of general purpose computing environments.

Similarly, as embedded systems are dedicated to a small set of tasks, one would expect that the software to manage them should be small and simple.

On the other hand, once an embedded system is deployed, it must continue to function without interruption and without administrator intervention.

<p>

Database administration consists of two components, initial configuration and ongoing maintenance.

Initial configuration consists of database design, manifestation, and tuning.

The instantiation of the design includes decomposing the design into tables, relations, or objects and designating proper indices and their implementations (e.g., Btrees, hash tables, etc.).

Tuning a design requires selecting a location for the log and data files, selecting appropriate database page sizes, specifying the size of in-memory

caches, and specifying the limits of multi-threading and concurrency.

As embedded systems define a specific environment and set of tasks, requiring expertise during the initial system configuration process is acceptable, and we focus our efforts on the ongoing maintenance of the system.

In this way, our emphasis differs from other projects such as Microsoft's AutoAdmin project [\[3\]](#), and the "no-knobs" administration that is identified as an area of important future research by the Asilomar authors [\[1\]](#).

<p>

In this paper, we focus on what the authors of the Asilomar report call "gizmo" databases [\[1\]](#), databases

that reside in devices such as smart cards, toasters, or telephones. The key characteristics of such databases are that their functionality is completely transparent to users, no one ever performs explicit database operations or database maintenance, the database may crash at any time and must recover instantly, the device may undergo a hard reset at any time, requiring that the database return to its initial state, and the semantic integrity of the database must be maintained at all times.

In Section 2, we provide more detail on the sorts of tasks typically performed by database administrators (DBAs) that must be automated in an embedded system.

<p>

The rest of this paper is structured as follows.

In Section 2, we outline the requirements for embedded database support.

In Section 3, we discuss how Berkeley DB is conducive to the hands-off management required in embedded systems.

In Section 4, we discuss novel features that enhance Berkeley

DB's suitability for the embedded applications.

In Section 5, we discuss issues of footprint size.

In Section 6 we discuss related work, and we conclude in Section 7.

## <h2>2. Embedded Database Requirements</h2>

Historically, much of the commercial database industry has been driven by the requirements of high performance online transaction processing

(OLTP), complex query processing, and the industry standard benchmarks that have emerged (e.g., TPC-C <a href="#TPCC">[9]</a>, TPC-D <a href="#TPCD">[10]</a>) to allow for system comparisons.

As embedded systems typically perform fairly simple queries, such metrics are not nearly as relevant for embedded database systems as are ease of maintenance, robustness, and small footprint.

Of these three requirements, robustness and ease of maintenance are the key issues.

Users must trust the data stored in their devices and must not need to manually perform anything resembling system administration in order to get their unit to work properly.

Fortunately, ease of use and robustness are important side effects of simplicity and good design.

These, in turn, lead to a small size, providing the third requirement of an embedded system.

### <h3>2.1 The User Perspective</h3>

<p>

In the embedded database arena, it is the ongoing maintenance tasks that must be automated, not necessarily the initial system configuration.

There

are five tasks

that are traditionally performed by DBAs,

but must be performed automatically

in embedded database systems.

These tasks are

log archival and reclamation,

backup,

data compaction/reorganization,

automatic and rapid recovery, and

reinitialization from scratch.

<P>

Log archival and backup are tightly coupled.

Database backups are part of any

large database installation, and log archival is analogous to incremental backup.

It is not clear what the implications of backup and archival are in an embedded system.

Consumers do not back up their VCRs or refrigerators, yet they do (or should) back up their personal computers or personal digital assistants.

For the remainder of this paper, we assume that backups, in some form, are required for gizmo databases (imagine having to reprogram, manually, the television viewing access pattern learned by some set-top television systems today).

Furthermore, we require that those backups are nearly instantaneous or completely

transparent,

as users should not be aware that their gizmos are being backed up and should not have to explicitly initiate such backups.

<p>

Data compaction or reorganization has traditionally required periodic dumping and restoration of

database tables and the recreation of indices.

In an embedded system, such reorganization must happen automatically.

<p>

Recovery issues are similar in embedded and traditional environments with a few exceptions.

While a few seconds or even a minute recovery is acceptable

for a large server installation, no one is willing to wait

for their telephone or television to reboot.

As with archival, recovery must be nearly instantaneous in an embedded product.

Secondly, it is often the case that a system will be completely

reinitialized, rather than simply rebooted.

In this case, the embedded database must be restored to its initial

state, freeing all its resources.

This is not typically a requirement of large server systems.

### 2.2 The Developer Perspective

In

addition to the maintenance-free operation required of the embedded systems, there are a number of requirements that fall out of the constrained resources typically found in the "gizmos" using gizmo databases. These requirements are:

- small footprint,
- short code-path,
- programmatic interface for tight application coupling and to avoid the overhead (in both time and size) of interfaces such as SQL and ODBC,
- application configurability and flexibility,
- support for complete memory-resident operation (e.g., these systems must run on gizmos without file systems), and
- support for multi-threading.

A small footprint and short code-path are self-explanatory, however what is not as obvious is that the programmatic interface requirement is the logical result of them.

Traditional interfaces such as ODBC and SQL add significant size overhead and frequently add multiple context/thread switches per operation, not to mention several IPC calls.

An embedded product is less likely to require the complex

query processing that SQL enables.

Instead, in the embedded space, the ability for an application to configure the database for the specific tasks in question is more important than a general query interface.

As some systems do not provide storage other than RAM and ROM, it is essential that an embedded database work seamlessly in memory-only environments.

Similarly, many of today's embedded operating systems provide a single address space architecture, so a simple, multi-threaded capability is essential for application requiring any concurrency.

In general, embedded applications run on gizmos whose native operating system support varies tremendously.

For example, the embedded OS may or may not support user-level processing or multi-threading.

Even if it does, a particular embedded application may or may not need it.

Not all applications need more than one thread of control.

An embedded database must provide mechanisms to developers without deciding policy.

For

example, the threading model in an application is a matter of policy, and depends not on the database software, but on the hardware, operating system, and the application's feature set. Therefore, the data manager must provide for the use of multi-threading, but not require it.

### <h2>3. Berkeley DB: A Database for Embedded Systems</h2>

Berkeley DB is the result of implementing database functionality using the UNIX tool-based philosophy.

The current Berkeley DB package, as distributed by Sleepycat Software, is a descendant of the hash and btree access methods distributed with 4.4BSD and its descendents.

The original package (referred to as DB-1.85), while intended as a public domain replacement for dbm and its followers (e.g., ndbm, gdbm, etc), rapidly became widely used as an efficient, easy-to-use data store.

It was incorporated into a number of Open Source packages including Perl, Sendmail, Kerberos, and the GNU C-library.

<p>

Versions 2.X and higher are distributed by Sleepycat Software and add functionality for concurrency, logging, transactions, and recovery.

Each piece of additional functionality is implemented as an independent module, which means that the subsystems can be used outside the context of Berkeley DB. For example, the locking subsystem can easily be used to implement locking for a non-DB application and the shared memory buffer pool can be used for any application caching data in main memory.

This subsystem design allows a designer to pick and choose the functionality necessary for the application, minimizing memory footprint and maximizing performance.

This addresses the small footprint and short code-path criteria mentioned in the previous section.

<p>

As Berkeley DB grew out of a replacement for dbm, its primary implementation language has always been C and its interface has been programmatic. The C interface is the native interface, unlike many database systems where the programmatic API is simply a layer on top of an already-costly query interface (e.g. embedded SQL).

Berkeley DB's heritage is also apparent in its data model; it has none.

The database stores unstructured key/data pairs, specified as variable length byte strings.

This leaves schema design and representation issues the responsibility

of the application, which is ideal for an embedded environment. Applications retain full control over specification of their data types, representation, index values, and index relationships. In other words, Berkeley DB provides a robust, high-performance, keyed storage system, not a particular database management system. We have designed for simplicity and performance, trading off complex, general purpose support that is better encapsulated in applications.

<p>

Another element of Berkeley DB's programmatic interface is its customizability; applications can specify Btree comparison and prefix compression functions, hash functions, error routines, and recovery models.

This means that embedded applications can tailor the underlying database

to best suit their data demands.

Similarly, the utilities traditionally bundled with a database manager (e.g., recovery, dump/restore, archive) are implemented as tiny wrapper programs around library routines. This means that it is not necessary to run separate applications for the utilities. Instead, independent threads can act as utility daemons, or regular query threads can perform utility functions. Many of the current products built on Berkeley DB are bundled as a single large server with independent threads that perform functions such as checkpoint, deadlock detection, and performance monitoring.

<p>

As mentioned earlier, living in an embedded environment requires flexible management of storage.

Berkeley DB does not require any preallocation of disk space for log or data files.

While many commercial database systems take complete control of a raw device, Berkeley DB uses a normal file system, and can therefore, safely and easily share a data space with other programs.

All

databases and log files are native files of the host environment, so whatever utilities are provided by the environment can be used to manage database files as well.

<p>

Berkeley DB provides three different memory models for its management of shared information.

Applications can use the IEEE Std 1003.1b-1993 (POSIX) `mmap` interface to share

data, they can use system shared memory, as frequently provided by the `shmget` family of interfaces, or they can use per-process heap memory (e.g., `malloc`).

Applications that require no permanent storage and do not provide shared memory facilities can still use Berkeley DB by requesting

strictly private memory and specifying that all databases be memory-resident.

This provides pure-memory operation.

<p>

Lastly, Berkeley DB is designed for rapid startup -- recovery can happen automatically as part of system initialization.

This means that Berkeley DB works correctly in environments where gizmos are suddenly shut down and restarted.

<h2>4.

Extensions for Embedded Environments </h2>

While the Berkeley DB library has been designed for use in embedded systems, all the features described above are useful in more conventional systems as well.

In this section, we discuss a number of features and "automatic knobs" that are specifically geared toward the more constrained environments found in gizmo databases.

<h3>4.1 Automatic compression</h3>

Following the programmatic interface design philosophy, we support application-specific (or default) compression routines. These can be geared toward the particular data types present in the application's dataset, thus providing better compression than a general purpose routine.

Note that the application could instead specify an encryption function and create encrypted databases instead of compressed ones. Alternately, the application might specify a function that performs both compression and encryption.

<p>

As applications are also permitted to specify comparison and hash functions, the application can chose to organize its data based either on uncompressed and clear-text data or compressed and encrypted data.

If the application indicates that data should be compared in its processed form (i.e., compressed and encrypted), then the compression and encryption are performed on individual data items and the in-memory representation retains these characteristics.

However, if the application indicates that data should be compared in its original form, then entire pages are transformed upon being read into or written out of the main memory buffer cache.

These two alternatives provide the flexibility to trade space and security for performance.

<h3>4.2 In-memory logging & transactions</h3>

One of the four key properties of transaction systems is durability. This means that transaction systems are designed for permanent storage (most commonly disk). However, as mentioned above, embedded systems

do not necessarily contain any such storage. Nevertheless, transactions can be useful in this environment to preserve the semantic integrity of the underlying storage. Berkeley DB optionally provides logging functionality and transaction support regardless of whether the database and logs are on disk or in memory.

### <h3>4.3 Remote Logs</h3>

While we do not expect users to backup their television sets and toasters, it is conceivable that a set-top box provided by a cable carrier should, in fact, be backed up by that cable carrier. The ability to store logs remotely can provide "information appliance" functionality, and can also be used in conjunction with local logs to enhance reliability. Furthermore, remote logs provide for catastrophic recovery, e.g., loss of the gizmo, destruction of the gizmo, etc.

### <h3>4.4 Application References to Database Buffers</h3>

Typically, when data is returned to the user, it must be copied from the data manager's buffer cache (or data page) into the application's memory. However, in an embedded environment, the robustness of the total software package is of paramount importance, not the isolation between the application and the data manager. As a result, it is possible for the data manager to avoid copies by giving applications direct references to data items in a shared memory cache. This is a significant performance optimization that can be allowed when the application and data manager are tightly integrated.

### <h3>4.5 Recoverable database creation/deletion</h3>

In a conventional database management system, the creation of database tables (relations) and indices are heavyweight operations that are not recoverable. This is not acceptable in a complex embedded environment where instantaneous recovery and robust operation in the face of all types of database operations is essential. While Berkeley DB files can be removed using normal file system utilities, we provide transaction protected utilities that allow us to recover both database creation and deletion.

### <h3>4.6 Adaptive concurrency control</h3>

The

Berkeley DB package uses page-level locking by default. This trades off fine grain concurrency control for simplicity during recovery. (Finer grain concurrency control can be obtained by reducing the page size in the database.) However, when multiple threads/processes perform page-locking in the presence of writing operations, there is the potential for deadlock.

As some environments do not need or desire the overhead of logging and transactions, it is important to provide the ability for concurrent access without the potential for deadlock.

<p>

Berkeley DB provides an option to perform coarser grain, deadlock-free locking.

Rather than locking on pages, locking is performed at the interface to the database.

Multiple readers or a single writer are allowed to be active in the database at any instant in time, with conflicting requests queued automatically.

The presence of cursors, through which applications can both read and write data, complicates this design.

If a cursor is currently being used for reading, but will later be used to write, the system will be deadlock prone if no special precautions are taken.

To handle this situation, we require that, when a cursor is created, the application specify any future intention to write.

If there is an intention to write, the cursor is granted an intention-to-write lock which does not conflict with readers, but does conflict with other intention-to-write locks and write locks.

The end result is that the application is limited to a single potentially writing cursor accessing the database at any point in time.

<p>

Under periods of low contention (but potentially high throughput), the normal page-level locking provides the best overall throughput.

However, as contention rises, so does the potential for deadlock.

As some cross-over point, switching to the less concurrent, but deadlock-free locking protocol will result in higher throughput as operations must never be retried.

Given the operating conditions of an embedded database manager,

it is useful to make this change automatically as the system itself detects high contention.

### <h3>4.7 Adaptive synchronization</h3>

In addition to the logical locks that protect the integrity of the database pages, Berkeley DB must synchronize access to shared memory data structures, such as the lock table, in-memory buffer pool, and in-memory log buffer.

Each independent module uses a single mutex to protect its shared data structures, under the assumption that operations that require the mutex are very short and the potential for conflict is low.

Unfortunately, in highly concurrent environments with multiple processors present, this assumption is not always true.

When this assumption becomes invalid (that is, we observe significant contention for the subsystem mutexes), we can switch over to a finer-grained concurrency model for the mutexes.

Once again, there is a performance trade-off. Fine-grain mutexes impose a penalty of approximately 25% (due to the increased number of mutexes required for each operation), but allow for higher throughput. Using fine-grain mutexes under low contention would cause a decrease in performance, so it is important to monitor the system carefully, so that the change can be executed only when it will increase system throughput without jeopardizing latency.

## 5. Footprint of an Embedded System

While traditional systems compete on price-performance, the embedded players will compete on price, features, and footprint. The earlier sections have focused on features; in this section we focus on footprint.

<p>

Oracle reports that Oracle Lite 3.0 requires 350 KB to 750 KB of memory and approximately 2.5 MB of hard disk space [\[7\]](#).

This includes drivers for interfaces such as ODBC and JDBC.

In contrast, Berkeley DB ranges in size from 75 KB to under 200 KB, foregoing heavyweight interfaces such as ODBC and JDBC and providing a variety of deployed sizes that can be used depending on application needs.

At the low end, applications requiring a simple single-user access method can choose from either extended linear hashing, B+ trees, or record-number based retrieval and pay only the 75 KB space requirement.

Applications requiring all three access methods will observe the 110 KB footprint.

At the high end, a fully recoverable, high-performance system occupies less than a quarter megabyte of memory.

This is a system you can easily incorporate in your toaster oven.

Table 1 shows the per-module break down of the entire Berkeley DB library. Note that this does not include memory used to cache database pages.

Object sizes in bytes			
Subsystem	Text	Data	Bss
Btree-specific routines	28812	0	0
Recno-specific routines	7211	0	0
Hash-specific routines	23742	0	0
Memory Pool	14535	0	0
Access method common code	23252	0	0
OS compatibility library	4980	52	0
Support utilities	6165	0	0
All modules for Btree access method only	77744	52	0
All modules for Recno access method only	84955	52	0
All modules for Hash access method only	72674	52	0
All Access Methods	108697	52	0
Locking	12533	0	0
Recovery	26948	8	4
Logging	37367	0	0
Full Package	185545	60	4

## 6. Related Work

Every three to five years, leading researchers in the database community convene to identify future directions in database research.

They produce a report of this meeting, named for the year and location of the meeting.

The most recent of these reports, the 1998 Asilomar report, identifies the embedded

database market as one of the high growth areas in database research [\[1\]](#). Not surprisingly, market analysts identify the embedded database market as a high-growth area in the commercial sector as well [\[5\]](#).

<p>

The Asilomar report identifies a new class of database applications, which they term "gizmo" databases, small databases embedded in tiny mobile appliances, e.g., smart-cards, telephones, personal digital assistants. Such databases must be self-managing, secure and reliable. Thus, the idea is that gizmo databases require plug and play data management with no database administrator (DBA), no human settable parameters, and the ability to adapt to changing conditions. More specifically, the Asilomar authors claim that the goal is self-tuning, including defining the physical DB design, the logical DB design, and automatic reports and utilities [\[1\]](#). To date, few researchers have accepted this challenge, and there is a dearth of research literature on the subject.

<p>

Our approach to embedded database administration is fundamentally different than that described by the Asilomar authors. We adopt their terminology, but view the challenge in supporting gizmo databases to be that of self-sustenance *after* initial deployment. Therefore, we find it, not only acceptable, but desirable to assume that application developers control initial database design and configuration. To the best of our knowledge, none of the published work in this area addresses this approach.

<p>

As the research community has not provided guidance in this arena, most work in embedded database administration has fallen to the commercial vendors.

These vendors fall into two camps, companies selling databases specifically designed for embedding or programmatic access and the major database vendors (e.g., Oracle, Informix, Sybase).

<p>

The embedded vendors all acknowledge the need for automatic administration, but fail to identify precisely how their products actually accomplish this.

A notable exception is Interbase whose white paper comparison with Sybase and Microsoft's SQL servers explicitly address features of maintenance ease.

Interbase claims that as they use no log files, there is no need for log reclamation, checkpoint tuning, or other tasks associated with log management. However, Interbase uses Transaction Information Pages, and it is unclear

how these are reused or reclaimed [\[6\]](#Interbase).

Additionally, with a log-free system, they must use a FORCE policy (write all pages to disk at commit), as defined by Haerder and Reuter [\[4\]](#Haerder). This has serious performance consequences for disk-based systems.

The approach described in this paper does use logs and therefore requires log reclamation, but provides hooks so the application may reclaim logs safely and programmatically.

While Berkeley DB does require checkpoints, the goal of tuning the checkpoint interval is to bound recovery time.

Since the checkpoint interval in Berkeley DB can be expressed by the amount of log data written, it requires no tuning.

The application designer sets a target recovery time, and selects the amount of log data that can be read in that interval and specifies the checkpoint interval appropriately. Even as load changes, the time to recover does not.

<p>

The backup approaches taken by Interbase and Berkeley DB are similar in that they both allow online backup, but rather different in their affect on transactions running during backup. As Interbase performs backups as transactions [\[6\]](#Interbase), concurrent queries can suffer potentially long delays. Berkeley DB uses native operating system system utilities and recovery for backups, so there is no interference with concurrent activity, other than potential contention on disk arms.

<p>

There are a number of database vendors selling in the embedded market (e.g., Raima, Centura, Pervasive, Faircom), but none highlight the special requirements of embedded database applications.

On the other end of the spectrum, the major vendors, Oracle, Sybase, Microsoft, are all becoming convinced of the importance of the embedded market.

As mentioned earlier, Oracle has announced its Oracle Lite server for embedded use.

Sybase has announced its UltraLite platform for "application-optimized, high-performance, SQL database engine for professional application developers building solutions for mobile and embedded platforms." [\[8\]](#Sybase).

We believe that SQL is incompatible with the gizmo database environment or truly embedded systems for which Berkeley DB is most suitable.

Microsoft research is taking a different approach, developing

technology to assist in automating initial database design and index specification [\[2\]](#Chaud98)[\[3\]](#Chaud982). As mentioned earlier, we believe that such configuration is, not only acceptable in the embedded market, but desirable so that applications can tune their database management for the target environment.

## 7. Conclusions

The coming wave of embedded systems poses a new set of challenges for data management.

The traditional server-based, big footprint systems designed for high performance on big iron are not the right approach in this environment.

Instead, application developers need small, fast, versatile systems that can be tailored to a specific environment.

In this paper, we have identified several of the key issues in providing these systems and shown how Berkeley DB provides many of the characteristics necessary for such applications.

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</html>

Found in path(s):

\* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/refs/embedded.html

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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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- web-common\_3\_0.xsd
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## 1.385 libdrm 2.4.81

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\* DRM based mode setting test program

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- \* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/amdgpu/frame.h
- \* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/amdgpu/vce\_ib.h
- \* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/amdgpu/vce\_tests.c

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- \* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/include/drm/virtgpu\_drm.h
- \* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/include/drm/qxl\_drm.h

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/\* xf86drmSL.c -- Skip list support

\* Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com

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\*

\* Authors: Rickard E. (Rik) Faith <faith@valinux.com>

\*

\* DESCRIPTION

\*

\* This file contains a straightforward skip list implementation.n

\*

\* FUTURE ENHANCEMENTS

\*

\* REFERENCES

\*

\* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to

\* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/xf86drmSL.c

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/vc4/vc4\_packet.h

\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/vc4/vc4\_qpu\_defines.h

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/exynos/exynos\_fimg2d\_perf.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/exynos/exynos\_fimg2d\_event.c

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/libkms/dumb.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/libkms/intel.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/kmstest/main.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/libkms/internal.h  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/libkms/radeon.c

\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/libkms/vmwgfx.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/libkms/nouveau.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/libkms/api.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/libkms/linux.c

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/util/pattern.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/util/kms.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/util/pattern.h  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/util/kms.h  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/util/common.h  
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```

```
AC_PREREQ([2.63])
```

```
AC_INIT([libdrm],
```

```
  [2.4.81],
```

```
  [https://bugs.freedesktop.org/enter\_bug.cgi?product=DRI],
```

```
  [libdrm])
```

```

AC_CONFIG_HEADERS([config.h])
AC_CONFIG_SRCDIR([Makefile.am])
AC_CONFIG_MACRO_DIR([m4])
AC_CONFIG_AUX_DIR([build-aux])
PKG_PROG_PKG_CONFIG

# Require xorg-macros minimum of 1.12 for XORG_WITH_XSLTPROC
m4_ifndef([XORG_MACROS_VERSION],
  [m4_fatal([must install xorg-macros 1.12 or later before running autoconf/autogen])])
XORG_MACROS_VERSION(1.12)
XORG_WITH_XSLTPROC
XORG_MANPAGE_SECTIONS

AM_INIT_AUTOMAKE([1.10 foreign dist-bzip2])

# Enable quiet compiles on automake 1.11.
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])

# Check for programs
AC_PROG_CC
AC_PROG_CC_C99

if test "x$ac_cv_prog_cc_c99" = xno; then
  AC_MSG_ERROR([Building libdrm requires
  C99 enabled compiler])
fi

AC_USE_SYSTEM_EXTENSIONS
AC_SYS_LARGEFILE
AC_FUNC_ALLOCA

save_CFLAGS="$CFLAGS"
export CFLAGS="$CFLAGS -Werror"
AC_HEADER_MAJOR
CFLAGS="$save_CFLAGS"

AC_CHECK_HEADERS([sys/sysctl.h sys/select.h])

# Initialize libtool
LT_PREREQ([2.2])
LT_INIT([disable-static])

dnl pthread-stubs is mandatory on BSD platforms, due to the nature of the
dnl project. Even then there's a notable issue as described in the project README
case "$host_os" in
linux* | cygwin* | darwin* | solaris* | *-gnu* | gnu*)
  pthread_stubs_possible="no"
  ;;

```

```

*)
  pthread_stubs_possible="yes"
  ;;
esac

if test "x$pthread_stubs_possible" = xyes; then
  PKG_CHECK_MODULES(PTHREADSTUBS, pthread-stubs >= 0.4)
  AC_SUBST(PTHREADSTUBS_CFLAGS)
  AC_SUBST(PTHREADSTUBS_LIBS)
fi

pkgconfigdir=${libdir}/pkgconfig
AC_SUBST(pkgconfigdir)
AC_ARG_ENABLE([udev],
  [AS_HELP_STRING([--enable-udev],
    [Enable support for using udev instead of mknod (default: disabled)]),
  [UDEV=$enableval], [UDEV=no])

AC_ARG_ENABLE([libkms],
  [AS_HELP_STRING([--disable-libkms],
    [Disable KMS mm abstraction library (default: auto, enabled on supported platforms)]),
  [LIBKMS=$enableval], [LIBKMS=auto])

AC_ARG_ENABLE([intel],
  [AS_HELP_STRING([--disable-intel],
    [Enable support for intel's KMS API (default: auto, enabled on x86)]),
  [INTEL=$enableval], [INTEL=auto])

AC_ARG_ENABLE([radeon],
  [AS_HELP_STRING([--disable-radeon],
    [Enable support for radeon's KMS API (default: auto)]),
  [RADEON=$enableval], [RADEON=auto])

AC_ARG_ENABLE([amdgpu],
  [AS_HELP_STRING([--disable-amdgpu],
    [Enable support for amdgpu's KMS API (default: auto)]),
  [AMDGPU=$enableval], [AMDGPU=auto])

AC_ARG_ENABLE([nouveau],
  [AS_HELP_STRING([--disable-nouveau],
    [Enable support for nouveau's KMS API (default: auto)]),
  [NOUVEAU=$enableval], [NOUVEAU=auto])

AC_ARG_ENABLE([vmwgfx],
  [AS_HELP_STRING([--disable-vmwgfx],
    [Enable support for vmwgfx's KMS API (default: yes)]),
  [VMWGFX=$enableval], [VMWGFX=yes])

```

```
AC_ARG_ENABLE(omap-experimental-api,
  AS_HELP_STRING([--enable-omap-experimental-api],
    [Enable support for OMAP's experimental API (default: disabled)]),
  [OMAP=$enableval], [OMAP=no])
```

```
AC_ARG_ENABLE(exynos-experimental-api,
  AS_HELP_STRING([--enable-exynos-experimental-api],
    [Enable support for EXYNOS's experimental API (default: disabled)]),
  [EXYNOS=$enableval], [EXYNOS=no])
```

```
AC_ARG_ENABLE(freedreno,
  AS_HELP_STRING([--disable-freedreno],
    [Enable support for freedreno's KMS API (default: auto, enabled on arm)]),
  [FREEDRENO=$enableval], [FREEDRENO=auto])
```

```
AC_ARG_ENABLE(freedreno-kgsl,
  AS_HELP_STRING([--enable-freedreno-kgsl],
    [Enable support for freedreno's to use downstream android kernel API (default: disabled)]),
  [FREEDRENO_KGSL=$enableval], [FREEDRENO_KGSL=no])
```

```
AC_ARG_ENABLE(tegra-experimental-api,
  AS_HELP_STRING([--enable-tegra-experimental-api],
    [Enable support for Tegra's experimental API (default: disabled)]),
  [TEGRA=$enableval], [TEGRA=no])
```

```
AC_ARG_ENABLE(vc4,
  AS_HELP_STRING([--disable-vc4],
    [Enable support for vc4's API (default: auto, enabled on arm)]),
  [VC4=$enableval], [VC4=auto])
```

```
AC_ARG_ENABLE(etnaviv-experimental-api,
  AS_HELP_STRING([--enable-etnaviv-experimental-api],
    [Enable support for etnaviv's experimental API (default: disabled)]),
  [ETNAVIV=$enableval], [ETNAVIV=no])
```

```
AC_ARG_ENABLE(install-test-programs,
  AS_HELP_STRING([--enable-install-test-programs],
    [Install test programs (default: no)]),
  [INSTALL_TESTS=$enableval], [INSTALL_TESTS=no])
```

```
dnl =====
```

```
dnl check compiler flags
```

```
AC_DEFUN([LIBDRM_CC_TRY_FLAG], [
  AC_MSG_CHECKING([whether $CC supports $1])
```

```
libdrm_save_CFLAGS="$CFLAGS"
```

```

CFLAGS="$CFLAGS
$1"

AC_COMPILE_IFELSE([AC_LANG_SOURCE([ ]), [libdrm_cc_flag=yes], [libdrm_cc_flag=no])
CFLAGS="$libdrm_save_CFLAGS"

if test "x$libdrm_cc_flag" = "xyes"; then
  ifelse([$2], , :, [$2])
else
  ifelse([$3], , :, [$3])
fi
AC_MSG_RESULT([$libdrm_cc_flag])
])

dnl We use clock_gettime to check for timeouts in drmWaitVBlank

AC_CHECK_FUNCS([clock_gettime], [CLOCK_LIB=],
  [AC_CHECK_LIB([rt], [clock_gettime], [CLOCK_LIB=-lrt],
    [AC_MSG_ERROR([Couldn't find clock_gettime])])])
AC_SUBST([CLOCK_LIB])

AC_CHECK_FUNCS([open_memstream], [HAVE_OPEN_MEMSTREAM=yes])

dnl Use lots of warning flags with with gcc and compatible compilers

dnl Note: if you change the following variable, the cache is automatically
dnl skipped and all flags rechecked. So there's no need to do anything
dnl else. If for any reason you need to force a recheck, just change
dnl MAYBE_WARN in an ignorable way (like adding whitespace)

MAYBE_WARN="-Wall -Wextra \
-Wsign-compare
-Werror-implicit-function-declaration \
-Wpointer-arith -Wwrite-strings -Wstrict-prototypes \
-Wmissing-prototypes -Wmissing-declarations -Wnested-externs \
-Wpacked -Wswitch-enum -Wmissing-format-attribute \
-Wstrict-aliasing=2 -Winit-self \
-Wdeclaration-after-statement -Wold-style-definition \
-Wno-unused-parameter \
-Wno-attributes -Wno-long-long -Winline -Wshadow \
-Wno-missing-field-initializers"

# invalidate cached value if MAYBE_WARN has changed
if test "x$libdrm_cv_warn_maybe" != "x$MAYBE_WARN"; then
  unset libdrm_cv_warn_cflags
fi
AC_CACHE_CHECK([for supported warning flags], libdrm_cv_warn_cflags, [
echo

```

```

WARN_CFLAGS=""

# Some warning options are not supported by all versions of
# gcc, so test all desired options against the current
# compiler.
#
# Note that there are some order dependencies
# here. Specifically, an option that disables a warning will
# have no net effect if a later option then enables that
# warnings, (perhaps implicitly). So we put
some grouped
# options (-Wall and -Wextra) up front and the -Wno options
# last.

for W in $MAYBE_WARN; do
LIBDRM_CC_TRY_FLAG([$W], [WARN_CFLAGS="$WARN_CFLAGS $W"])
done

libdrm_cv_warn_cflags=$WARN_CFLAGS
libdrm_cv_warn_maybe=$MAYBE_WARN

AC_MSG_CHECKING([which warning flags were supported])
WARN_CFLAGS="$libdrm_cv_warn_cflags"

# Check for atomic intrinsics
AC_CACHE_CHECK([for native atomic primitives], drm_cv_atomic_primitives, [
drm_cv_atomic_primitives="none"

AC_LINK_IFELSE([AC_LANG_PROGRAM([[
int atomic_add(int *i) { return __sync_add_and_fetch (i, 1); }
int atomic_cmpxchg(int *i, int j, int k) { return __sync_val_compare_and_swap (i, j, k); }
]], [[]]), [drm_cv_atomic_primitives="Intel"], [])

if test "x$drm_cv_atomic_primitives" = "xnone"; then
AC_CHECK_HEADER([atomic_ops.h], drm_cv_atomic_primitives="libatomic-ops")
fi

# atomic functions defined in <atomic.h> & libc on Solaris
if test "x$drm_cv_atomic_primitives" = "xnone"; then
AC_CHECK_FUNC([atomic_cas_uint],
drm_cv_atomic_primitives="Solaris")
fi
])

if test "x$drm_cv_atomic_primitives" = xIntel; then
AC_DEFINE(HAVE_LIBDRM_ATOMIC_PRIMITIVES, 1,
[Enable if your compiler supports the Intel __sync_* atomic primitives])
fi

```

```

if test "x$drm_cv_atomic_primitives" = "xlibatomic-ops"; then
  AC_DEFINE(HAVE_LIB_ATOMIC_OPS, 1, [Enable if you have libatomic-ops-dev installed])
fi

dnl Print out the appropriate message considering the value set be the
dnl respective in $1.
dnl $1 - value to be evaluated. Eg. $INTEL, $NOUVEAU, ...
dnl $2 - libdrm shortname. Eg. intel, freedreno, ...
dnl $3 - GPU name/brand. Eg. Intel, NVIDIA Tegra, ...
dnl $4 - Configure switch. Eg. intel, omap-experimental-api, ...
AC_DEFUN([LIBDRM_ATOMICS_NOT_FOUND_MSG], [
  case "x$1" in
    xyes) AC_MSG_ERROR([libdrm_$2 depends upon atomic operations, which were not found for your compiler/cpu.
Try compiling with -march=native, or install the libatomics-op-dev package, or, failing both of those, disable
support for $3
GPUs by passing --disable-$4 to ./configure]) ;;
    xauto) AC_MSG_WARN([Disabling $2. It depends on atomic operations, which were not found for your
compiler/cpu. Try compiling with -march=native, or install the libatomics-op-dev package.]) ;;
    *) ;;
  esac
])

if test "x$drm_cv_atomic_primitives" = "xnone"; then
  LIBDRM_ATOMICS_NOT_FOUND_MSG($INTEL, intel, Intel, intel)
  INTEL=no

  LIBDRM_ATOMICS_NOT_FOUND_MSG($RADEON, radeon, Radeon, radeon)
  RADEON=no

  LIBDRM_ATOMICS_NOT_FOUND_MSG($AMDGPU, amdgpu, AMD, amdgpu)
  AMDGPU=no

  LIBDRM_ATOMICS_NOT_FOUND_MSG($NOUVEAU, nouveau, NVIDIA, nouveau)
  NOUVEAU=no

  LIBDRM_ATOMICS_NOT_FOUND_MSG($OMAP, omap, OMAP, omap-experimental-api)
  OMAP=no

  LIBDRM_ATOMICS_NOT_FOUND_MSG($FREEDRENO, freedreno, Qualcomm Adreno, freedreno)
  FREEDRENO=no

  LIBDRM_ATOMICS_NOT_FOUND_MSG($TEGRA, tegra, NVIDIA Tegra, tegra-experimental-api)
  TEGRA=no

  LIBDRM_ATOMICS_NOT_FOUND_MSG($ETNAVIV, etnaviv, Vivante, etnaviv-experimental-api)
  ETNAVIV=no
else
  if test "x$INTEL"

```

```

= xauto; then
case $host_cpu in
i?86|x86_64) INTEL=yes ;;
*) INTEL=no ;;
esac
fi
if test "x$RADEON" = xauto; then
RADEON=yes
fi
if test "x$AMDGPU" = xauto; then
AMDGPU=yes
fi
if test "x$NOUVEAU" = xauto; then
NOUVEAU=yes
fi
if test "x$FREEDRENO" = xauto; then
case $host_cpu in
arm*|aarch64) FREEDRENO=yes ;;
*) FREEDRENO=no ;;
esac
fi
if test "x$VC4" = xauto; then
case $host_cpu in
arm*|aarch64) VC4=yes ;;
*) VC4=no ;;
esac
fi
fi

if test "x$INTEL" != "xno"; then
PKG_CHECK_MODULES(PCIAccess, [pciaccess >= 0.10])
fi
AC_SUBST(PCIAccess_CFLAGS)
AC_SUBST(PCIAccess_LIBS)

if test "x$UDEV" = xyes; then
AC_DEFINE(UDEV, 1, [Have UDEV support])
fi

AC_CANONICAL_HOST
if test "x$LIBKMS" = xauto ; then
case $host_os in
linux*) LIBKMS="yes" ;;
freebsd* | kfreebsd*-gnu)
LIBKMS="yes" ;;
dragonfly*) LIBKMS="yes" ;;
*) LIBKMS="no" ;;
esac

```

fi

AM\_CONDITIONAL(HAVE\_LIBKMS, [test "x\$LIBKMS" = xyes])

AM\_CONDITIONAL(HAVE\_INTEL, [test "x\$INTEL"  
= xyes])

if test "x\$INTEL" = xyes; then

AC\_DEFINE(HAVE\_INTEL, 1, [Have intel support])

fi

AM\_CONDITIONAL(HAVE\_VMWGFX, [test "x\$VMWGFX" = xyes])

if test "x\$VMWGFX" = xyes; then

AC\_DEFINE(HAVE\_VMWGFX, 1, [Have vmwgfx kernel headers])

fi

AM\_CONDITIONAL(HAVE\_NOUVEAU, [test "x\$NOUVEAU" = xyes])

if test "x\$NOUVEAU" = xyes; then

AC\_DEFINE(HAVE\_NOUVEAU, 1, [Have nouveau (nvidia) support])

fi

AM\_CONDITIONAL(HAVE\_OMAP, [test "x\$OMAP" = xyes])

if test "x\$OMAP" = xyes; then

AC\_DEFINE(HAVE\_OMAP, 1, [Have OMAP support])

fi

AM\_CONDITIONAL(HAVE\_EXYNOS, [test "x\$EXYNOS" = xyes])

if test "x\$EXYNOS" = xyes; then

AC\_DEFINE(HAVE\_EXYNOS, 1, [Have EXYNOS support])

fi

AM\_CONDITIONAL(HAVE\_FREEDRENO, [test "x\$FREEDRENO" = xyes])

if test "x\$FREEDRENO" = xyes; then

AC\_DEFINE(HAVE\_FREEDRENO, 1, [Have freedreno support])

fi

if test "x\$FREEDRENO\_KGSL" = xyes; then

if test "x\$FREEDRENO" != xyes; then

AC\_MSG\_ERROR([Cannot enable freedreno KGSL interface if freedreno is disabled])

fi

fi

AM\_CONDITIONAL(HAVE\_FREEDRENO\_KGSL,

[test "x\$FREEDRENO\_KGSL" = xyes])

if test "x\$FREEDRENO\_KGSL" = xyes; then

AC\_DEFINE(HAVE\_FREEDRENO\_KGSL, 1, [Have freedreno support for KGSL kernel interface])

fi

AM\_CONDITIONAL(HAVE\_RADEON, [test "x\$RADEON" = xyes])

if test "x\$RADEON" = xyes; then

```

AC_DEFINE(HAVE_RADEON, 1, [Have radeon support])
fi

if test "x$AMDGPU" != xno; then
# Detect cunit library
PKG_CHECK_MODULES([CUNIT], [cunit >= 2.1], [have_cunit=yes], [have_cunit=no])
# If pkg-config does not find cunit, check it using AC_CHECK_LIB. We
# do this because Debian (Ubuntu) lacks pkg-config file for cunit.
# fixed in 2.1-2.dfsg-3: http://anonscm.debian.org/cgit/collab-maint/cunit.git/commit/?h=debian
if test "x${have_cunit}" = "xno"; then
AC_CHECK_LIB([cunit], [CU_initialize_registry], [have_cunit=yes], [have_cunit=no])
if test "x${have_cunit}" = "xyes"; then
CUNIT_LIBS="-lcunit"
CUNIT_CFLAGS=""
AC_SUBST([CUNIT_LIBS])
AC_SUBST([CUNIT_CFLAGS])
fi
fi
else
have_cunit=no
fi
AM_CONDITIONAL(HAVE_CUNIT,
[test "x$have_cunit" != "xno"])

AM_CONDITIONAL(HAVE_AMDGPU, [test "x$AMDGPU" = xyes])
if test "x$AMDGPU" = xyes; then
AC_DEFINE(HAVE_AMDGPU, 1, [Have amdgpu support])

AC_DEFINE(HAVE_CUNIT, [test "x$have_cunit" != "xno"], [Enable CUNIT Have amdgpu support])

if test "x$have_cunit" = "xno"; then
AC_MSG_WARN([Could not find cunit library. Disabling amdgpu tests])
fi
fi

AM_CONDITIONAL(HAVE_TEGRA, [test "x$TEGRA" = xyes])
if test "x$TEGRA" = xyes; then
AC_DEFINE(HAVE_TEGRA, 1, [Have Tegra support])
fi

AM_CONDITIONAL(HAVE_VC4, [test "x$VC4" = xyes])
if test "x$VC4" = xyes; then
AC_DEFINE(HAVE_VC4, 1, [Have VC4 support])
fi

AM_CONDITIONAL(HAVE_ETNAVIV, [test "x$ETNAVIV" = xyes])
if test "x$ETNAVIV" = xyes; then
AC_DEFINE(HAVE_ETNAVIV, 1, [Have etnaviv support])

```

fi

AM\_CONDITIONAL(HAVE\_INSTALL\_TESTS, [test "x\$INSTALL\_TESTS" = xyes])

if test "x\$INSTALL\_TESTS" = xyes; then

AC\_DEFINE(HAVE\_INSTALL\_TESTS, 1, [Install test programs])

fi

AC\_ARG\_ENABLE([cairo-tests],

[AS\_HELP\_STRING([--enable-cairo-tests],

[Enable support for Cairo rendering in tests (default: auto)]),

[CAIRO=\$enableval], [CAIRO=auto])

if test "x\$CAIRO" != xno; then

PKG\_CHECK\_MODULES(CAIRO, cairo, [HAVE\_CAIRO=yes], [HAVE\_CAIRO=no])

fi

AC\_MSG\_CHECKING([whether to enable Cairo tests])

if test "x\$CAIRO" = xauto; then

CAIRO="\$HAVE\_CAIRO"

fi

if test "x\$CAIRO" = xyes; then

if ! test "x\$HAVE\_CAIRO" = xyes; then

AC\_MSG\_ERROR([Cairo support required but not present])

fi

AC\_DEFINE(HAVE\_CAIRO, 1, [Have Cairo support])

fi

AC\_MSG\_RESULT([\$CAIRO])

AM\_CONDITIONAL(HAVE\_CAIRO, [test "x\$CAIRO" = xyes])

# xsltproc for docbook manpages

AC\_ARG\_ENABLE([manpages],

AS\_HELP\_STRING([--enable-manpages], [enable manpages @<:@default=auto@:>@]),

[MANS=\$enableval], [MANS=auto])

AM\_CONDITIONAL([BUILD\_MANPAGES], [test "x\$XSLTPROC" != "x" -a "x\$MANS" != "xno"])

# check for offline man-pages stylesheet

AC\_MSG\_CHECKING([for  
docbook manpages stylesheet])

MANPAGES\_STYLESHEET="http://docbook.sourceforge.net/release/xsl/current/manpages/docbook.xsl"

AC\_PATH\_PROGS\_FEATURE\_CHECK([XSLTPROC\_TMP], [xsltproc],

AS\_IF([`"\$ac\_path\_XSLTPROC\_TMP" --nonet "\$MANPAGES\_STYLESHEET" > /dev/null  
2>&1`],

[HAVE\_MANPAGES\_STYLESHEET=yes]))

if test "x\$HAVE\_MANPAGES\_STYLESHEET" = "xyes"; then

AC\_SUBST(MANPAGES\_STYLESHEET)

AC\_MSG\_RESULT([yes])

else

AC\_MSG\_RESULT([no])

fi

AM\_CONDITIONAL([HAVE\_MANPAGES\_STYLESHEET], [test "x\$HAVE\_MANPAGES\_STYLESHEET" =

```

"xyes" ])

AC_ARG_ENABLE(valgrind,
    [AS_HELP_STRING([--enable-valgrind],
        [Build libdrm with valgrind support (default: auto)]),
    [VALGRIND=$enableval], [VALGRIND=auto])
if test "x$VALGRIND" != xno; then
    PKG_CHECK_MODULES(VALGRIND, [valgrind], [have_valgrind=yes], [have_valgrind=no])
fi
AC_MSG_CHECKING([whether to enable Valgrind
support])
if test "x$VALGRIND" = xauto; then
    VALGRIND="$have_valgrind"
fi

if test "x$VALGRIND" = "xyes"; then
if ! test "x$have_valgrind" = xyes; then
    AC_MSG_ERROR([Valgrind support required but not present])
fi
AC_DEFINE([HAVE_VALGRIND], 1, [Use valgrind intrinsics to suppress false warnings])
fi

AC_MSG_RESULT([$VALGRIND])

AC_ARG_WITH([kernel-source],
    [AS_HELP_STRING([--with-kernel-source],
        [specify path to linux kernel source]),
    [kernel_source="$with_kernel_source"])
AC_SUBST(kernel_source)

AC_MSG_CHECKING([whether $CC supports __attribute__(("hidden"))])
AC_LINK_IFELSE([AC_LANG_PROGRAM([
    int foo_hidden( void ) __attribute__((visibility("hidden")));
])], HAVE_ATTRIBUTE_VISIBILITY="yes"; AC_MSG_RESULT([yes]), AC_MSG_RESULT([no]));

if test "x$HAVE_ATTRIBUTE_VISIBILITY" = xyes; then
    AC_DEFINE(HAVE_VISIBILITY, 1, [Compiler supports __attribute__(("hidden"))])
fi

AC_SUBST(WARN_CFLAGS)
AC_CONFIG_FILES([
    Makefile
    libkms/Makefile
    libkms/libkms.pc
    intel/Makefile
    intel/libdrm_intel.pc
    radeon/Makefile
    radeon/libdrm_radeon.pc

```

```
amdgpu/Makefile
amdgpu/libdrm_amdgpu.pc
nouveau/Makefile
nouveau/libdrm_nouveau.pc
omap/Makefile
omap/libdrm_omap.pc
exynos/Makefile
exynos/libdrm_exynos.pc
freedreno/Makefile
freedreno/libdrm_freedreno.pc
tegra/Makefile
tegra/libdrm_tegra.pc
vc4/Makefile
vc4/libdrm_vc4.pc
etnaviv/Makefile
etnaviv/libdrm_etnaviv.pc
tests/Makefile
tests/modeprint/Makefile
tests/modetest/Makefile
tests/kms/Makefile
tests/kmstest/Makefile
tests/proptest/Makefile
tests/radeon/Makefile
tests/amdgpu/Makefile
tests/vbltest/Makefile
tests/exynos/Makefile
tests/tegra/Makefile
tests/nouveau/Makefile
tests/etnaviv/Makefile
tests/util/Makefile
man/Makefile
libdrm.pc)
AC_OUTPUT

echo
""
echo "$PACKAGE_STRING will be compiled with:"
echo ""
echo " libkms      $LIBKMS"
echo " Intel API   $INTEL"
echo " vmwgfx API  $VMWGFX"
echo " Radeon API  $RADEON"
echo " AMDGPU API
  $AMDGPU"
echo " Nouveau API $NOUVEAU"
echo " OMAP API   $OMAP"
echo " EXYNOS API $EXYNOS"
echo " Freedreno API $FREEDRENO (kgs!:$FREEDRENO_KGSL)"
```

```
echo " Tegra API   $TEGRA"
echo " VC4 API     $VC4"
echo " Etnaviv API $ETNAVIV"
echo ""
```

Found in path(s):

\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/configure.ac

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```
/******
```

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*
```

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*****/
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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/amdgpu/util\_hash\_table.c

\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/amdgpu/util\_hash\_table.h

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```
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```

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/include/drm/drm.h

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```
/* xf86drmRandom.c -- "Minimal Standard" PRNG Implementation
 * Created: Mon Apr 19 08:28:13 1999 by faith@precisioninsight.com
 *
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\*

\* Authors: Rickard E. (Rik) Faith <faith@valinux.com>

\*

#### \* DESCRIPTION

\*

\* This file contains a simple, straightforward implementation of the Park  
\* & Miller "Minimal Standard" PRNG [PM88, PMS93], which is a Lehmer  
\* multiplicative linear congruential generator (MLCG) with a period of  
\*  $2^{31}-1$ .

\*

\* This implementation is intended to provide a reliable, portable PRNG  
\* that is suitable for testing a hash table implementation and for  
\* implementing skip lists.

\*

#### \* FUTURE ENHANCEMENTS

\*

\* If initial seeds are not selected randomly, two instances of the PRNG  
\* can be correlated.

[Knuth81, pp. 32-33] describes a shuffling technique

\* that can eliminate this problem.

\*

\* If PRNGs are used for simulation, the period of the current  
\* implementation may be too short. [LE88] discusses methods of combining  
\* MLCGs to produce much longer periods, and suggests some alternative  
\* values for A and M. [LE90 and Sch92] also provide information on  
\* long-period PRNGs.

\*

#### \* REFERENCES

\*

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\* Seminumerical Algorithms. Reading, Massachusetts: Addison-Wesley, 1981.

\*

\* [LE88] Pierre L'Ecuyer. "Efficient and Portable Combined Random Number  
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\* [LE90] Pierre L'Ecuyer. "Random Numbers for Simulation". CACM 33(10),  
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\* [PM88] Stephen K. Park and Keith W. Miller. "Random Number Generators:  
\* Good Ones are Hard to Find". CACM 31(10), October 1988, pp. 1192-1201.

\*

\* [Sch92] Bruce Schneier. "Pseudo-Ransom Sequence  
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\* CPUs". Dr. Dobbs's Journal 17(2), February 1992, pp. 34, 37-38, 40.

\*

\* [PMS93] Stephen K. Park, Keith W. Miller, and Paul K. Stockmeyer. In  
\* "Technical Correspondence: Remarks on Choosing and Implementing Random  
\* Number Generators". CACM 36(7), July 1993, pp. 105-110.

\*  
\*/

Found in path(s):

\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/random.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/xf86drmRandom.c

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/exynos/exynos\_fimg2d\_test.c

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tegra/tegra.c

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/\* drmsl.c -- Skip list test

\* Created: Mon May 10 09:28:13 1999 by faith@precisioninsight.com

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\*

\* DESCRIPTION

\*

\* This file contains a straightforward skip list implementation.n

\*

\* FUTURE ENHANCEMENTS

\*

\* REFERENCES

\*

\* [Pugh90] William Pugh. Skip Lists: A Probabilistic Alternative to

\* Balanced Trees. CACM 33(6), June 1990, pp. 668-676.

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/\* mga\_drm.h -- Public header for the Matrox g200/g400 driver \*- linux-c \*-

\* Created: Tue Jan 25 01:50:01 1999 by jhartmann@precisioninsight.com

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\*  
\* Rewritten by:  
\* Gareth Hughes <gareth@valinux.com>

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/\* radeon\_drm.h -- Public header for the radeon driver -\*- linux-c -\*-

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- \* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/etnaviv/etnaviv\_pipe.c
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\* Authors:

\* Chris Wilson <chris@chris-wilson.co.uk>

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/man/drm-memory.xml

\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/man/drmAvailable.xml

\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/man/drmHandleEvent.xml

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/modetest/buffers.c  
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/\* xf86drmHash.c -- Small hash table support for integer -> integer mapping

\* Created: Sun Apr 18 09:35:45 1999 by faith@precisioninsight.com

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\* Authors: Rickard E. (Rik) Faith <faith@valinux.com>  
\*  
\* DESCRIPTION  
\*  
\* This file contains a straightforward implementation of a fixed-sized  
\* hash table using self-organizing linked lists [Knuth73, pp. 398-399] for  
\* collision resolution. There are two potentially interesting things  
\* about this implementation:  
\*  
\* 1) The table is power-of-two sized. Prime sized tables are more  
\* traditional, but do not have a significant advantage over power-of-two  
\* sized table, especially when double hashing is not used for collision  
\* resolution.  
\*  
\* 2) The hash computation  
uses a table of random integers [Hanson97,  
\* pp. 39-41].  
\*  
\* FUTURE ENHANCEMENTS  
\*  
\* With a table size of 512, the current implementation is sufficient for a  
\* few hundred keys. Since this is well above the expected size of the  
\* tables for which this implementation was designed, the implementation of  
\* dynamic hash tables was postponed until the need arises. A common (and  
\* naive) approach to dynamic hash table implementation simply creates a  
\* new hash table when necessary, rehashes all the data into the new table,  
\* and destroys the old table. The approach in [Larson88] is superior in  
\* two ways: 1) only a portion of the table is expanded when needed,  
\* distributing the expansion cost over several insertions, and 2) portions  
\* of the table can be locked, enabling a scalable thread-safe  
\* implementation.  
\*  
\* REFERENCES

\*  
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\* [Knuth73] Donald E. Knuth. The Art of Computer Programming. Volume 3:  
\* Sorting and Searching. Reading, Massachusetts: Addison-Wesley, 1973.  
\*  
\* [Larson88] Per-Ake Larson. "Dynamic Hash Tables". CACM 31(4), April  
\* 1988, pp. 446-457.  
\*  
\*/

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/hash.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/xf86drmHash.c

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/\* amdgpu\_drm.h -- Public header for the amdgpu driver \*- linux-c \*-

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\* Gareth Hughes <gareth@valinux.com>  
\* Keith Whitwell <keith@tungstengraphics.com>

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/msm/msm\_device.c

\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/msm/msm\_ringbuffer.c

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/kgsl/kgsl\_priv.h

\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/msm/msm\_bo.c

\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/kgsl/kgsl\_pipe.c

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/nouveau/nouveau.c

\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/nouveau/pushbuf.c

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\* Authors:

\* SooChan Lim <sc1.lim@samsung.com>

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\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/kms/libkms-test-plane.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/kms/libkms-test-screen.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/kms/libkms-test-framebuffer.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/kms/libkms-test-device.c  
\* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/kms/libkms-test-crtc.c  
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## 1.387 fontconfig 2.8.0

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# 1.388 libice 1.0.6-1

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Mesa 3-D graphics library

Version: 7.0

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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

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

2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

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- \* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons  
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
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org.eclipse.jetty.toolchain:jetty-schemas

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```
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```

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```
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program `Gnomovision' (a program to direct compilers to make passes
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```

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

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@table

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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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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libcrypto

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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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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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lib/hcrypto/test\_dh.c

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## 1.402 util-linux 0.104.2

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NR	START	END	SECTORS	SIZE	NAME	UUID
1	32	7679	7648	3.7M		8f8378c0-01
2	7680	16383	8704	4.3M		8f8378c0-02
5	7936	12799	4864	2.4M		
6	12544	16127	3584	1.8M		

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
    local FILE="$1"

    # Read the contents of the file into a variable
    local raw_license_text=$(<"$FILE")

    # Convert to lowercase
    local lowercase_license_text="{raw_license_text,,}"

    # Remove anything before the beginning of the license
    local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

    # Replace line breaks (Windows or Linux) with a single space
    local replaced_linebreaks=$(tr "\r\n" ' ' <<< "$stripped_license_text")

    # Replace multiple spaces with a single space
    local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

    # Strip away any non-printable, non-whitespace characters
    local clean_unprintable_license_text=$(tr
    -cd '[:print:][:space:]' <<< "$normalized_license_text")

    # Remove punctuation and special characters
    local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

    # Calculate the MD5 sum of the cleaned license text
    local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

    # Output the MD5 sum
    echo "$MD5SUM"
```

```

}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
    echo "Please provide a FILE as an argument."
    exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B "1
x ?"U@,5 @mISmIN<GimCN7g1uE
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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```

## 1.403 openjdk 1.8.0u131

## 1.403.1 Available under license :

```
## zlib v1.2.11
```

```
### zlib License
```

```
<pre>
```

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```
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```

```
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include/GL/glxext.h  
include/GL/wglxext.h :

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A. HISTORY OF THE SOFTWARE

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

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

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

All

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

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

2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
PSF	yes			

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

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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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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes

2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
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## 1.409 clamav 0.104.2

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Written by: Philip Hazel

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# 1.412 python 3.7.9

## 1.412.1 Available under license :

### A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for

National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

All

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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

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

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

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Release	Derived	Year	Owner	GPL-
	from			compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

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2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2			
2012	PSF	yes		

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- Chris McDonough, 2011/02/16

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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

2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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### A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope

Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes

2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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

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## History

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

=====

## Contributors

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:  
<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
It contains the certificates in PEM format and therefore  
can be directly used with curl / libcurl / php\_curl, or with  
an Apache+mod\_ssl webserver for SSL client authentication.  
Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$  
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## A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes

2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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

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## 1.425 libtasn 4.16.0

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes

2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
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#### A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes

1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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@(#) \$RCSfile: certdata.txt,v \$

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# 1.427 pcre 8.35

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### THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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# 1.429 python-certifi 2019.06.16

## 1.429.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#  
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:  
<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.  
Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$  
\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## 1.430 python-certifi 2020.12.5

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#  
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:  
<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.  
Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$  
\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.431 ini 1.62.0

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## 1.432 python-certifi 2020.04.05.1

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities  
(CA). These were automatically extracted from Mozilla's root certificates  
file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore  
can be directly used with curl / libcurl / php\_curl, or with  
an Apache+mod\_ssl webserver for SSL client authentication.  
Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

## 1.433 simplejson 2.0.9

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## 1.434 ruby 2.7.2p137

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## 1.435 asciidoctor 2.0.10

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## 1.436 python 2.4.3R

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

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

Zope Corporation was a sponsoring member of the PSF.

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent  
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# 1.440 libharu 2.3.0

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GIMP Palette

Name: Test

Columns: 0

#

GIMP Palette

Name: custompalette

Columns: 4

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0 0 0 Index 3

65 38 30 Index 4

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114 101 97 Index 8

208 127 100 Index 9

151 144 142 Index 10

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## 1.446 zlib 1.2.8

### 1.446.1 Available under license :

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## 1.447 zlib 1.2.5

### 1.447.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.5, April 19th, 2010
```

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).  
\*/

## 1.448 zlib 1.1.3

### 1.448.1 Available under license :

BSD-3-Clause

## 1.449 zlib 1.2.1

### 1.449.1 Available under license :

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

#### ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.1 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format). These documents are also available in other formats from <ftp://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html>

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact [zlib@gzip.org](mailto:zlib@gzip.org)). A usage example of the library is given in the file `example.c` which also tests that the library is working correctly. Another example is given in the file `minigzip.c`. The compression library itself is composed of all source files except `example.c` and `minigzip.c`.

To compile all files and run the test program, follow the instructions given at the top of `Makefile`. In short "make test; make install" should work for most machines. For Unix: `./configure; make test; make install` For MSDOS, use one of the special makefiles such as `Makefile.msc`. For VMS, use `Make_vms.com` or `descrip.mms`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://www.zlib.org> or <http://www.gzip.org/zlib/> Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ [http://www.gzip.org/zlib/zlib\\_faq.html](http://www.gzip.org/zlib/zlib_faq.html) before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available in <http://dogma.net/markn/articles/zlibtool/zlibtool.htm>

The changes made in version 1.2.1 are documented in the file ChangeLog.

Unsupported

third party contributions are provided in directory "contrib".

A Java implementation of zlib is available in the Java Development Kit <http://java.sun.com/j2se/1.4.2/docs/api/java/util/zip/package-summary.html>  
See the zlib home page <http://www.zlib.org> for details.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is in the CPAN (Comprehensive Perl Archive Network) sites <http://www.cpan.org/modules/by-module/Compress/>

A Python interface to zlib written by A.M. Kuchling <amk@magnet.com> is available in Python 1.5 and later versions, see <http://www.python.org/doc/lib/module-zlib.html>

A zlib binding for TCL written by Andreas Kupries <a.kupries@westend.com> is available at [http://www.oche.de/~akupries/soft/trf/trf\\_zip.html](http://www.oche.de/~akupries/soft/trf/trf_zip.html)

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL\_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with

other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS, BEOS and by some Mac compilers.

- For PalmOs, see <http://palmzlib.sourceforge.net/>

- When building a shared, i.e. dynamic library on Mac OS X, the library must be installed before testing (do "make install" before "make test"), since the library location is specified in the library.

#### Acknowledgments:

The deflate

format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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jloup@gzip.org      madler@alumni.caltech.edu

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If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/README

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

/\* inffback9.h -- header for using inflateBack9 functions

\* Copyright (C) 2003 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/inffback9/inffback9.h

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

/\* inflate.h -- internal inflate state definition

\* Copyright (C) 1995-2003 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/inflate.h

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

/\* unzip.h -- IO for uncompress .zip files using zlib

Version 1.00, September 10th, 2003

Copyright (C) 1998-2003 Gilles Vollant

This unzip package allow extract file from .ZIP file, compatible with PKZip 2.04g

WinZip, InfoZip tools and compatible.

Encryption and multi volume ZipFile (span) are not supported.

Old compressions used by old PKZip 1.x are not supported

I WAIT FEEDBACK at mail [info@winimage.com](mailto:info@winimage.com)

Visit also <http://www.winimage.com/zLibDll/unzip.htm> for evolution

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\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/minizip/unzip.h

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

/\* infback.c -- inflate using a call-back interface

\* Copyright (C) 1995-2003 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/infback.c

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Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/masm686/match.asm

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/\* uncompr.c -- decompress a memory buffer

\* Copyright (C) 1995-2003 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/uncompr.c

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

/\* deflate.h -- internal compression state

\* Copyright (C) 1995-2002 Jean-loup Gailly

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/deflate.h

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

(\* zlibpas -- Pascal interface to the zlib data compression library

\*

\* Copyright (C) 2003 Cosmin Truta.

\* Derived from original sources by Bob Dellaca.

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\*)

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/pascal/zlibpas.pas

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These classes provide a C++ stream interface to the zlib library. It allows you to do things like:

```
gzofstream outf("blah.gz");
outf << "These go into the gzip file " << 123 << endl;
```

It does this by deriving a specialized stream buffer for gzipped files, which is the way Stroustrup would have done it. :->

The gzifstream and gzofstream classes were originally written by Kevin Ruland and made available in the zlib contrib/iostream directory. The older version still compiles under gcc 2.xx, but not under gcc 3.xx, which sparked the development of this version.

The new classes are as standard-compliant as possible, closely following the approach of the standard library's fstream classes. It compiles under gcc versions 3.2 and 3.3, but not under gcc 2.xx. This is mainly due to changes in the standard library naming scheme. The new version of gzifstream/gzofstream/gzfilebuf differs from the previous one in the following

respects:

- added showmanyc
- added setbuf, with support for unbuffered output via setbuf(0,0)
- a few bug fixes of stream behavior
- gzipped output file opened with default compression level instead of maximum level
- setcompressionlevel()/strategy() members replaced by single setcompression()

The code is provided "as is", with the permission to use, copy, modify, distribute and sell it for any purpose without fee.

Ludwig Schwardt

<schwardt@sun.ac.za>

DSP Lab  
Electrical & Electronic Engineering Department  
University of Stellenbosch  
South Africa

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/iostream3/README

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

/\* inflate.c -- zlib decompression

\* Copyright (C) 1995-2003 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/inflate.c

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

/\* Adler32.c -- compute the Adler-32 checksum of a data stream

\* Copyright (C) 1995-2003 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/adler32.c

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

\* For conditions of distribution and use, see copyright notice in zlib.h

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/inflate86/inffast.S

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

/\* deflate.c -- compress data using the deflation algorithm

\* Copyright (C) 1995-2003 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/deflate.c

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

/\* zutil.h -- internal interface and configuration of the compression library

\* Copyright (C) 1995-2003 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/zutil.h

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

```
/* trees.c -- output deflated data using Huffman coding
```

```
* Copyright (C) 1995-2003 Jean-loup Gailly
```

```
* For conditions of distribution and use, see copyright notice in zlib.h
```

```
*/
```

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/trees.c

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

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.1, November 17th, 2003
```

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

```
*/
```

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/zlib.h

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

This directory contains a Pascal (Delphi, Kylix) interface to the

zlib data compression library.

## Directory listing

=====

zlibd32.mak makefile for Borland C++  
example.pas usage example of zlib  
zlibpas.pas the Pascal interface to zlib  
readme.txt this file

## Compatibility notes

=====

- Although the name "zlib" would have been more normal for the zlibpas unit, this name is already taken by Borland's ZLib unit. This is somehow unfortunate, because that unit is not a genuine interface to the full-fledged zlib functionality, but a suite of class wrappers around zlib streams. Other essential features, such as checksums, are missing. It would have been more appropriate for that unit to have a name like "ZStreams", or something similar.
- The C and zlib-supplied types int, uInt, long, uLong, etc. are translated directly into Pascal types of similar sizes (Integer, LongInt, etc.), to avoid namespace pollution. In particular, there is no conversion of unsigned int into a Pascal unsigned integer. The Word type is non-portable and has the same size (16 bits) both in a 16-bit and in a 32-bit environment, unlike Integer. Even if there is a 32-bit Cardinal type, there is no real need for unsigned int in zlib under a 32-bit environment.
- Except for the callbacks, the zlib function interfaces are assuming the calling convention normally used in Pascal (\_\_pascal for DOS and Windows16, \_\_fastcall for Windows32). Since the cdecl keyword is used, the old Turbo Pascal does not work with this interface.
- The gz\* function interfaces are not translated, to avoid interfacing problems with the C runtime library. Besides, gzprintf(gzFile file, const char \*format, ...) cannot be translated into Pascal.

## Legal issues

=====

The zlibpas interface is:

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Copyright (C)

1998 by Bob Dellaca.

Copyright (C) 2003 by Cosmin Truta.

The example program is:

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Copyright (C) 1998,1999,2000 by Jacques Nomssi Nzali.

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\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/pascal/readme.txt

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Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/asm586/match.S

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/asm686/match.S

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

```
-- This library 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 library 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 --  
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-- covered by the GNU General Public License. This exception does not --  
-- covered by the GNU Public License.

--

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/ada/zlib.ads

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

/\* inftrees.c -- generate Huffman trees for efficient decoding

\* Copyright (C) 1995-2003 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/inftrees.c

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

/\* inftree9.c -- generate Huffman trees for efficient decoding

\* Copyright (C) 1995-2003 Mark Adler

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\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/inftree9/inftree9.c

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/\* zutil.c -- target dependent utility functions for the compression library

\* Copyright (C) 1995-2003 Jean-loup Gailly.

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\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/zutil.c

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

-- Open source license information is in the zlib.ads file. --

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/ada/zlib-thin.ads

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/ada/zlib-streams.adb

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/ada/test.adb

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/ada/mtest.adb

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/ada/zlib-thin.adb

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/ada/read.adb

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/ada/zlib-streams.ads

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/ada/zlib.adb

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

```
/* inflate9.h -- internal inflate state definition
* Copyright (C) 1995-2003 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/inflate9/inflate9.h
```

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

```
/* inffas86.c is a hand tuned assembler version of
*
* inffast.c -- fast decoding
* Copyright (C) 1995-2003 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Copyright (C) 2003 Chris Anderson <christop@charm.net>
* Please use the copyright conditions above.
*
* Mar-13-2003 -- Most of this is derived from inffast.S which is derived from
* the gcc -S output of zlib-1.2.0/inffast.c. Zlib-1.2.0 is in beta release at
* the moment. I have successfully compiled and tested this code with gcc2.96,
* gcc3.2, icc5.0, msvc6.0. It is very close to the speed of inffast.S
* compiled with gcc -DNO_MMX, but inffast.S is still faster on the P3 with MMX
* enabled. I will attempt to merge the MMX code into this version. Newer
* versions of this and inffast.S can be found at
* http://www.eetbeetee.com/zlib/ and http://www.charm.net/~christop/zlib/
*/
```

Found in path(s):

```
* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/inflate86/inffas86.c
```

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

```
/*
* puff.c
* Copyright (C) 2002, 2003 Mark Adler
* For conditions of distribution and use, see copyright notice in puff.h
* version 1.7, 3 Mar 2003
*
* puff.c is a simple inflate written to be an unambiguous way to specify the
* deflate format. It is not written for speed but rather simplicity. As a
* side benefit, this code might actually be useful when small code is more
* important than speed, such as bootstrap applications. For typical deflate
* data, zlib's inflate() is about four times as fast as puff(). zlib's
* inflate compiles to around 20K on my machine, whereas puff.c compiles to
* around 4K on my machine (a PowerPC using GNU cc). If the faster decode()
* function here is used, then puff() is only twice as slow as zlib's
```

```
* inflate().
*
* All dynamically allocated memory comes from the stack. The stack required
* is less than 2K bytes. This code is compatible with 16-bit int's and
* assumes that long's are at least 32 bits. puff.c uses the short data type,
* assumed to be 16 bits, for arrays in order to to conserve memory. The code
* works whether integers are stored big endian or little endian.
*
* In the comments below are "Format notes" that describe the inflate process
* and document some of the less obvious aspects of the format. This source
* code is meant to supplement RFC 1951, which formally describes the deflate
* format:
*
* http://www.zlib.org/rfc-deflate.html
*/
```

Found in path(s):

```
*/zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/puff/puff.c
```

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

```
/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2003 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
*/zlib-1-2-1-tar-gz/zlib-1.2.1/example.c
```

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

```
/* puff.h
Copyright (C) 2002, 2003 Mark Adler, all rights reserved
version 1.7, 3 Mar 2002
```

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Mark Adler madler@alumni.caltech.edu

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/puff/puff.h

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

/\* inffast.c -- fast decoding

\* Copyright (C) 1995-2003 Mark Adler

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/inffast.c

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

/\* minigzip.c -- simulate gzip using the zlib compression library

\* Copyright (C) 1995-2002 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/minigzip.c

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

/\* zip.h -- IO for compress .zip files using zlib

Version 1.00, September 10th, 2003

Copyright (C) 1998-2003 Gilles Vollant

This unzip package allow creates .ZIP file, compatible with PKZip 2.04g

WinZip, InfoZip tools and compatible.

Encryption and multi volume ZipFile (span) are not supported.

Old compressions used by old PKZip 1.x are not supported

For uncompress .zip file, look at unzip.h

I WAIT FEEDBACK at mail [info@winimage.com](mailto:info@winimage.com)

Visit also <http://www.winimage.com/zLibDll/unzip.html> for evolution

Condition of use and distribution are the same than zlib :

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2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/minizip/zip.h

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

/\* compress.c -- compress a memory buffer

\* Copyright (C) 1995-2002 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*/

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/compress.c

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

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page

<http://www.zlib.org> which may have more recent information.

The latest zlib FAQ is at [http://www.gzip.org/zlib/zlib\\_faq.html](http://www.gzip.org/zlib/zlib_faq.html)

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL.

See the file win32/DLL\_FAQ.txt in the zlib distribution.

Pointers to the precompiled DLL are found in the zlib web site at

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

3. Where can I get a Visual Basic interface to zlib?

See

- \* <http://www.winimage.com/zLibDll/>
- \* <http://www.dogma.net/markn/articles/zlibtool/zlibtool.htm>
- \* [contrib/visual-basic.txt](#) in the zlib distribution

#### 4. `compress()` returns `Z_BUF_ERROR`

Make sure that before the call of `compress`, the length of the compressed buffer is equal to the total size of the compressed buffer and not zero. For Visual Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

#### 5. `deflate()` or `inflate()` returns `Z_BUF_ERROR`

Before making the call, make sure that `avail_in` and `avail_out` are not zero. When setting the parameter `flush` equal to `Z_FINISH`, also make sure that `avail_out` is big enough to allow processing all pending input. Note that a `Z_BUF_ERROR` is not fatal--another call to `deflate()` or `inflate()` can be made with more input or output space. A `Z_BUF_ERROR` may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when `strm.avail_out` returns with zero.

#### 6. Where's the zlib documentation (man pages, etc.)?

It's in `zlib.h` for the moment, and Francis S. Lin has converted it to a web page `zlib.html`. Volunteers to transform this to Unix-style man pages, please contact Jean-loup Gailly ([jloup@gzip.org](mailto:jloup@gzip.org)). Examples of zlib usage are in the files `example.c` and `minigzip.c`.

#### 7. Why don't you use GNU `autoconf` or `libtool` or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

#### 8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at [zlib@gzip.org](mailto:zlib@gzip.org). Do not send multi-megabyte data files without prior agreement.

#### 9. Why do I get "undefined reference to `gzputc`"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.\* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

See the directory contrib/minizip in the zlib distribution.

12. Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

```
make clean
./configure -s
make
```

14. How do I install a shared zlib library on Unix?

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can `#include <zlib.h>`, it's there. The `-lz` option will probably link to it.

15. I have a question about OttoPDF

We are not the authors of OttoPDF. The real author is on the OttoPDF web site Joel Hainley [jhainley@myndkryme.com](mailto:jhainley@myndkryme.com).

16. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible with the gzip format. The `gz*` functions in zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

17. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

18. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using `deflateInit2()`. You can also request that inflate decode the gzip format using `inflateInit2()`. Read `zlib.h` for more details.

Note that you cannot specify special gzip header contents (e.g. a file name or modification date), nor will inflate tell you what was in the gzip header. If you need to customize the header or see what's in it, you can use the raw deflate and inflate operations and the `crc32()` function and roll your own gzip encoding and decoding. Read the gzip RFC 1952 for details of the header and trailer format.

19. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's `gz*` functions use `stdio` library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's `Init` functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

20. Can I use zlib in my commercial application?

Yes. Please read the license in `zlib.h`.

21. Is zlib under the GNU license?

No. Please read the license in `zlib.h`.

22. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the `ZLIB_VERSION` and `ZLIB_VERNUM` #defines in `zlib.h`. In particular, the final version number needs to be changed to "f", and an identification string should be appended to `ZLIB_VERSION`. Version numbers

x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB\_VERNUM to 0x123f, and ZLIB\_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and infrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB\_VERSION and ZLIB\_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

23. Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

24. Will zlib work on a 64-bit machine?

It should. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to [zlib@gzip.org](mailto:zlib@gzip.org)

25. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

26. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z\_FULL\_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z\_FULL\_FLUSH too often, since it can significantly degrade compression.

27. Does zlib work on MVS, OS/390, CICS, etc.?

We don't know for sure. We have heard occasional reports of success on these systems. If you do use it on one of these, please provide us with

a report, instructions, and patches that we can reference when we get these questions. Thanks.

28. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

29. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

<http://www.gzip.org/#faq11>

30. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total\_in and strm\_total\_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress()

may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is 32 bits. If the compiler's "long" type is 64 bits, then the limit is 16 exabytes.

31. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of a 4K string space, other than the caller of gzprintf() assuring that the output will not exceed 4K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by

gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have `sprintf()` or `vsprintf()` and would like one, you can find a portable implementation here:

<http://www.ijs.si/software/snprintf/>

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability.

32. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the `java.util.zip` package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: <http://www.zlib.org/>

33. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly. So now, we simply make sure that the code always works.

34. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the `comp.compression` FAQ for pointers to various formats and associated software.

35. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption, use `gpg` (<http://www.gnupg.org/>) which already includes zlib compression. For PKZIP compatible "encryption", look at <http://www.info-zip.org/>

36. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the

"deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

37. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

38. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/FAQ

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

(\* example.c -- usage example of the zlib compression library

\* Copyright (C) 1995-2003 Jean-loup Gailly.

\* For conditions of distribution and use, see copyright notice in zlib.h

\*

\* Pascal translation

\* Copyright (C) 1998 by Jacques Nomssi Nzali.

\* For conditions of distribution and use, see copyright notice in readme.txt

\*

\* Adaptation to the zlibpas interface

\* Copyright (C) 2003 by Cosmin Truta.

\* For conditions of distribution and use, see copyright notice in readme.txt

\*)

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/pascal/example.pas

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

Permission is granted to anyone to use this software for any purpose,

<li> The origin of this software must not be misrepresented ; you must not

<li> Altered source versions must be plainly marked as such, and must not be

<li> This notice may not be removed or altered from any source distribution.

Found in path(s):

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/old/zlib.html

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

```
/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2003 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results about a factor
* of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

Found in path(s):

```
* /zlib-1-2-1-tar-gz/zlib-1.2.1/crc32.c
```

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

```
/* infback9.c -- inflate deflate64 data using a call-back interface
* Copyright (C) 1995-2003 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):

```
* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/infback9/infback9.c
```

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

## Frequently Asked Questions about ZLIB1.DLL

This document describes the design, the rationale, and the usage of the official DLL build of zlib, named ZLIB1.DLL. If you have general questions about zlib, you should see the file "FAQ" found in the zlib distribution, or at the following location:

[http://www.gzip.org/zlib/zlib\\_faq.html](http://www.gzip.org/zlib/zlib_faq.html)

### 1. What is ZLIB1.DLL, and how can I get it?

- ZLIB1.DLL is the official build of zlib as a DLL.  
(Please remark the symbol '1' in the name.)

Pointers to a precompiled ZLIB1.DLL can be found in the zlib web site at:

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

Applications that link to ZLIB1.DLL can rely on the following specification:

- \* The exported symbols are exclusively defined in the source files "zlib.h" and "zlib.def", found in an official zlib source distribution.
- \* The symbols are exported by name, not by ordinal.
- \* The exported names are undecorated.
- \* The calling convention of functions is "C" (CDECL).
- \* The ZLIB1.DLL binary is linked to MSVCRT.DLL.

The archive in which ZLIB1.DLL is bundled contains compiled test programs that must run with a valid build of ZLIB1.DLL. It is recommended to download the prebuilt DLL from the zlib web site, instead of building it yourself, to avoid potential incompatibilities that could be introduced by your compiler and build settings. If you do build the DLL yourself, please make sure that it complies with all the above requirements, and it runs with the precompiled test programs, bundled with the original ZLIB1.DLL distribution and available at the zlib web site.

If, for any reason, you need to build an incompatible DLL, please use a different name.

## 2. Why did you change the name of the DLL to ZLIB1.DLL?

What happened to the old ZLIB.DLL?

- The old ZLIB.DLL, built from zlib-1.1.x and earlier, required compilation settings

that were incompatible to those used by a

static build. The DLL settings were supposed to be enabled by defining the macro ZLIB\_DLL, before including "zlib.h".

Incorrect handling of this macro was silently accepted at build time, resulting in two major problems:

- \* ZLIB\_DLL was missing from the old makefile. When building the DLL, not all people added it to the build options. In consequence, incompatible incarnations of ZLIB.DLL started to circulate around the net.
- \* When switching from using the static library to using the DLL, applications had to define the ZLIB\_DLL macro and to recompile all the sources that contained calls to zlib functions. Failure to do so resulted in creating binaries that were unable to run with the official ZLIB.DLL build.

The only possible solution that we could foresee was to make a binary-incompatible change in the DLL interfacing, in order to remove the dependency on the

ZLIB\_DLL macro, and to release the new DLL under a different name.

We chose the name ZLIB1.DLL, where '1' indicates the major zlib version number. We hope that we will not have to break the binary compatibility again, at least not as long as the zlib-1.x series will last.

There is still a ZLIB\_DLL macro, that can trigger a more efficient build and use of the DLL, but compatibility no longer depends on it.

3. Can I build ZLIB.DLL from the new zlib sources, and replace an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- In principle, you can do it by assigning calling convention keywords to the macros ZEXPORT and ZEXPORTVA. In practice, it depends on what you mean by "an old ZLIB.DLL", because the old DLL exists in several mutually-incompatible versions.

If you have a compiled application that works with a certain ZLIB.DLL without any known security issues, there is hardly a need to rebuild the DLL from new sources only to link it to the old app binary. But if you really want to do it, you have to find out first what kind of calling convention uses your particular ZLIB.DLL build, and to use the same one in the new build. If you don't know what this is all about, you might be better off if you would just forget it.

4. Can I compile my application using the new zlib interface, and link it to an old ZLIB.DLL, that was built from zlib-1.1.4 or earlier?

- The official answer is "no"; the real answer depends again on what kind of ZLIB.DLL you have. Even if you are lucky, this course of action is unreliable.

If you rebuild your application and you intend to use a newer version of zlib (post- 1.1.4), it is strongly recommended to link it to the new ZLIB1.DLL.

5. Why are the zlib symbols exported by name, and not by ordinal?

- Although exporting symbols by ordinal is a little faster, it

is risky. Any single glitch in the maintenance or use of the DEF file that contains the ordinals can result in incompatible builds and frustrating crashes. Simply put, the benefits of exporting symbols by ordinal do not justify the risks.

Technically, it should be possible to maintain ordinals in the DEF file, and still export the symbols by name. Ordinals exist in every DLL, and even if the dynamic linking performed at the DLL startup is searching for names, ordinals serve as hints, for a faster name lookup. However, if the DEF file contains ordinals, the Microsoft linker automatically builds an implib that will cause the executables linked to it to use those ordinals, and not the names. It is interesting to notice that the GNU linker for Win32 does not suffer from this problem.

It is possible to avoid the DEF file if the exported symbols are accompanied by a "`__declspec(dllexport)`" attribute in the source files. You can do this in zlib by predefining the `ZLIB_DLL` macro.

6. I see that the ZLIB1.DLL functions use the "C" (CDECL) calling convention. Why not use the STDCALL convention? STDCALL is the standard convention in Win32, and I need it in my Visual Basic project!

(For readability, we use CDECL to refer to the convention triggered by the "`__cdecl`" keyword, STDCALL to refer to the convention triggered by "`__stdcall`", and FASTCALL to refer to the convention triggered by "`__fastcall`".)

- Most of the native Windows API functions (without varargs) use indeed the WINAPI convention (which translates to STDCALL in Win32), but the standard C functions use CDECL. If a user application is intrinsically tied to the Windows API (e.g. it calls native Windows API functions such as `CreateFile()`), sometimes it makes sense to decorate its own functions with WINAPI. But if ANSI C or POSIX portability is a goal (e.g. it calls standard C functions such as `fopen()`), it is not a sound decision to request the inclusion of `<windows.h>`, or to use non-ANSI constructs, for the sole purpose to make the user functions STDCALL-able.

The functionality offered by zlib is not in the category of "Windows functionality", but is more like "C functionality".

Technically, STDCALL is not bad; in fact, it is slightly faster than CDECL, and it works with variable-argument functions, just like CDECL. It is unfortunate that, in spite of using STDCALL in the Windows API, it is not the default convention used by the C compilers that run under Windows. The roots of the problem reside deep inside the unsafety of the K&R-style function prototypes, where the argument types are not specified; but that is another story for another day.

The fact that remains is that CDECL is the default convention. Even if an explicit convention (such as STDCALL or FASTCALL) is hard-coded into the function prototypes inside C headers,

problems may appear. One problem, for example, deals with the necessity to expose the convention in users' callbacks.

The calling convention issues are also important when using zlib in other programming languages. Some of them, like Ada (GNAT) and Fortran (GNU G77), have C bindings implemented initially on Unix, and relying on the C calling convention. On the other hand, the pre-.NET versions of Microsoft Visual Basic require STDCALL, while Borland Delphi prefers (although it does not require) FASTCALL.

In fairness to all possible uses of zlib outside the C programming language, we choose the default "C" convention. Anyone interested in different bindings or conventions is encouraged to maintain specialized projects. The "contrib/" directory from the zlib distribution already holds a couple of foreign bindings, such as Ada, C++, and Delphi.

#### 7. I need a DLL for my Visual Basic project. What can I do?

- Define the ZLIB\_WINAPI macro before including "zlib.h", when building both the DLL and the user application (except that you don't need to define anything when using the DLL in Visual Basic). The ZLIB\_WINAPI macro will switch on the WINAPI (STDCALL) convention. The name of this DLL must be different than the official ZLIB1.DLL.

Gilles Vollant has contributed a build named ZLIBWAPI.DLL, with the ZLIB\_WINAPI macro turned on, and with the minizip functionality built in. For more information, please read the notes inside "contrib/vstudio/readme.txt", found in the zlib distribution.

8. If my application uses ZLIB1.DLL, should I link it to MSVCRT.DLL? Why?

- It is not required, but it is recommended to link your application to MSVCRT.DLL, if it uses ZLIB1.DLL.

The executables (.EXE, .DLL, etc.) that are involved in the same process and are using the C run-time library (i.e. they are calling standard C functions), must link to the same library. There are several libraries in the Win32 system: CRTDLL.DLL, MSVCRT.DLL, the static C libraries, etc. Since ZLIB1.DLL is linked to MSVCRT.DLL, the executables that depend on it should also be linked to MSVCRT.DLL.

9. Why are you saying that ZLIB1.DLL and my application must be linked to the same C run-time (CRT) library? I linked my application and my DLLs to different C libraries (e.g. my application to a static library, and my DLLs to MSVCRT.DLL), and everything works fine.

- If a user library invokes only pure Win32 API (accessible via <windows.h> and the related headers), its DLL build will work in any context. But if this library invokes standard C API, things get more complicated.

There is a single Win32 library in a Win32 system. Every function in this library resides in a single DLL module, that is safe to call from anywhere. On the other hand, there are multiple versions of the C library, and each of them has its own separate internal state. Standalone executables and user DLLs that call standard C functions must link to a C run-time (CRT) library, be it static or shared (DLL). Intermixing occurs when an executable (not necessarily standalone) and a DLL are linked to different CRTs, and both are running in the same process.

Intermixing multiple CRTs is possible, as long as their internal states are kept intact. The Microsoft Knowledge Base articles KB94248 "HOWTO: Use the C Run-Time" and KB140584 "HOWTO: Link with the Correct C Run-Time (CRT) Library" mention the potential problems raised by intermixing.

If intermixing works for you, it's because your application and DLLs are avoiding the corruption of each of the CRTs'

internal states, maybe by careful design, or maybe by fortune.

Also note that linking ZLIB1.DLL to non-Microsoft CRTs (such as those provided by Borland) raises similar problems.

10. Why are you linking ZLIB1.DLL to MSVCRT.DLL?

- MSVCRT.DLL exists on every Windows 95 with a new service pack installed, or with Microsoft Internet Explorer 4 or later, and on all other Windows 4.x or later (Windows 98, Windows NT 4, or later). It is freely distributable; if not present in the system, it can be downloaded from Microsoft or from other software provider for free.

The fact that MSVCRT.DLL does not exist on a virgin Windows 95 is not so problematic. The number of Windows 95 installations is rapidly decreasing, Microsoft stopped supporting it a long time ago, and many recent applications from various vendors, including Microsoft, do not even run on it. Furthermore, no serious user should run Windows 95 without a proper update installed.

There is also the fact that the mainstream C compilers for Windows are Microsoft Visual C++ 6.0, and gcc/MinGW. Both are producing executables that link to MSVCRT.DLL by default, without offering other dynamic CRTs as alternatives easy to select by users.

11. Why are you not linking ZLIB1.DLL to <<my favorite C run-time library>> ?

- We considered and abandoned the following alternatives:

\* Linking ZLIB1.DLL to a static C library (LIBC.LIB, or LIBCMT.LIB) is not a good option. People are using the DLL mainly to save disk space. If you are linking your program to a static C library, you may as well consider linking zlib in statically, too.

\* Linking ZLIB1.DLL to CRTDLL.DLL looks very appealing, because CRTDLL.DLL is present on every Win32 installation. Unfortunately, it has a series of problems: it raises difficulties when using it with C++ code, it does not work with 64-bit file offsets, (and so on...), and Microsoft discontinued its support a long time ago.

\* Linking ZLIB1.DLL to MSVCR70.DLL, supplied with the Microsoft .NET platform and Visual C++ 7.0 or newer, is not a good option. Although it is available for free download and distribution, its presence is scarce on today's Win32 installations. If it will ever become more popular than MSVCRT.DLL and will be pre-installed on the future Win32 systems, we will probably think again about it.

\* Linking ZLIB1.DLL to NTDLL.DLL is not possible. NTDLL.DLL exports only a part of the C library, and only on Windows NT systems.

12. I need to link my own DLL build to a CRT different than MSVCRT.DLL. What can I do?

- Feel free to rebuild the DLL from the zlib sources, and link it the way you want. You should, however, clearly state that your build is unofficial. You should give it a different file name, and/or install it in a private directory that can be accessed by your application only, and is not visible to the others (e.g. it's not in the SYSTEM or the SYSTEM32 directory, and it's not in the PATH). Otherwise, your build may clash with applications that link to the official build.

For example, in Cygwin, zlib is linked to the Cygwin runtime CYGWIN1.DLL, and it is distributed under the name CYGZ.DLL.

13. May I include additional pieces of code that I find useful, link them in ZLIB1.DLL, and export them?

- No. A legitimate build of ZLIB1.DLL must not include code that does not originate from the official zlib source code. But you can make your own private DLL build, under a different file name, as suggested in the previous answer.

For example, in Borland Delphi and C++ Builder, zlib is a part of the standard VCL library. If an application links to VCL dynamically, the name of the distributable binary (VCLxx.DLL) does not possess any danger of clashing with a legitimate but incompatible ZLIB1.DLL.

14. May I remove some functionality out of ZLIB1.DLL, by enabling macros like NO\_GZCOMPRESS or NO\_GZIP at compile time?

- No. A legitimate build of ZLIB1.DLL must provide the complete zlib functionality, as implemented in the official zlib source code. But you can make your own private DLL build, under a different file name, as suggested in the previous answer.

15. I made my own ZLIB1.DLL build. Can I test it for compliance?

- We prefer that you download the official DLL from the zlib web site. If you need something peculiar from this DLL, you can send your suggestion to the zlib mailing list.

However, in case you do rebuild the DLL yourself, you can run it with the test programs found in the DLL distribution. Running these test programs is not a guarantee of compliance, but a failure can imply a detected problem.

\*\*

This document is written and maintained by  
Cosmin Truta <cosmint@cs.ubbcluj.ro>

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/\* blast.c

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\* version 1.1, 16 Feb 2003

\*

\* blast.c decompresses data compressed by the PKWare Compression Library.

\* This function provides functionality similar to the explode() function of

\* the PKWare library, hence the name "blast".

\*

\* This decompressor is based on the excellent format description provided by

\* Ben Rudiak-Gould in comp.compression on August 13, 2001. Interestingly, the

\* example Ben provided in the post is incorrect. The distance 110001 should

\* instead be 111000. When corrected, the example byte stream becomes:

\*

\* 00 04 82 24 25 8f 80 7f

\*

\* which decompresses to "AIAIAIAIAIAIA" (without the quotes).

\*/

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\* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/blast/blast.c

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/\* gzappend -- command to append to a gzip file

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Mark Adler [madler@alumni.caltech.edu](mailto:madler@alumni.caltech.edu)

\*/

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\* Copyright (C) 1995-2003 Jean-loup Gailly.

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\*

\* Compile this file with -DNO\_GZCOMPRESS to avoid the compression code.

\*/

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\* /zlib-1-2-1-tar-gz/zlib-1.2.1/zconf.in.h

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\* /zlib-1-2-1-tar-gz/zlib-1.2.1/win32/Makefile.gcc

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/old/os2/Makefile.os2

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/Makefile

\* /zlib-1-2-1-tar-gz/zlib-1.2.1/msdos/Makefile.dj2

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/\* blast.h -- interface for blast.c

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\*

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## 1.450 zlib 1.2.12

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## 1.458 javax-annotation-api 1.3.2

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Found in path(s):

\* `/istack-commons-runtime-3-0-5-jar/META-INF/maven/com.sun.istack/istack-commons-runtime/pom.xml`

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Manifest-Version: 1.0

Bundle-Description: istack common utility code

Implementation-Title: istack common utility code runtime

Bundle-License: [https://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](https://glassfish.java.net/public/CDDL+GPL_1_1.html), h

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Bundle-SymbolicName: com.sun.istack.commons-runtime  
Implementation-Version: 3.0.5  
Built-By: build  
Bnd-LastModified: 1486772850426  
Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: com.sun.istack  
Bundle-DocURL: http://www.oracle.com/  
Bundle-Vendor: Oracle Corporation  
Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream,  
org.xml.sax,org.xml.sax.helpers  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"  
Tool: Bnd-3.2.0.201605172007  
Implementation-Vendor: Oracle Corporation  
Export-Package: com.sun.istack;uses:="javax.activation,javax.xml.strea  
m,org.xml.sax,org.xml.sax.helpers";version="3.0.5",com.sun.istack.log  
ging;version="3.0.5",com.sun.istack.localization;version="3.0.5"  
Bundle-Name:  
istack common utility code runtime  
Bundle-Version: 3.0.5  
Implementation-Build-Id: tags/istack-commons-3.0.5-321, 2017-02-11T01:  
27:24+0100  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_112

Found in path(s):

\* /istack-commons-runtime-3-0-5-jar/META-INF/MANIFEST.MF

## 1.461 servlet-api 3.1.0

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\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/UnmarshalException.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/helpers/ValidationEventLocatorImpl.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/ValidationEventHandler.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/util/JAXBSource.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/UnmarshallerHandler.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/ContextFinder.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/Messages.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/JAXBException.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/util/ValidationEventCollector.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/MarshalException.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/JAXBContext.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/TypeConstraintException.java  
\*  
/jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/Unmarshaller.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/helpers/AbstractMarshallerImpl.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/helpers/ValidationEventImpl.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/Marshaller.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/ValidationEvent.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/helpers/PrintConversionEventImpl.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/ValidationEventLocator.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/helpers/NotIdentifiableEventImpl.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/helpers/AbstractUnmarshallerImpl.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/NotIdentifiableEvent.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/DatatypeConverter.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/DatatypeConverterInterface.java  
\*  
/jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/util/Messages.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/Element.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/Validator.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/ValidationException.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/helpers/DefaultValidationEventHandler.java  
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 * /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlAttachmentRef.java
 * /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/attachment/AttachmentMarshaller.java
```

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* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlAccessOrder.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlAccessorType.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/W3CDomHandler.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/attachment/AttachmentUnmarshaller.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/Binder.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlElementWrapper.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlSchemaType.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlList.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlMixed.java
*
/jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlSchemaTypes.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlAnyAttribute.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlAccessType.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/DomHandler.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlAccessorType.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/SchemaOutputResolver.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlMimeType.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlInlineBinaryData.java
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* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/Messages.properties
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- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/PrintConversionEvent.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/adapters/NormalizedStringAdapter.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XMLElementRef.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XMLNsForm.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XMLElementDecl.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/adapters/XMLJavaTypeAdapters.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XMLElement.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XMLElements.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XMLType.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XMLIDREF.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/ParseConversionEvent.java
- \*
- /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/adapters/XMLAdapter.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/adapters/CollapsedStringAdapter.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XMLAttribute.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/adapters/HexBinaryAdapter.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/PropertyException.java
- \* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XMLSchema.java

\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlNs.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlEnum.java  
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\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/JAXBElement.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlValue.java  
\*  
/jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlRootElement.java  
\* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/JAXBIntrospector.java  
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## 1.467 jinja 2.11.2

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```
import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/jinja2/__init__.py", "rt", encoding="utf8") as f:
```

```

version = re.search(r'__version__ = "(.*?)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
        "Issue tracker": "https://github.com/pallets/jinja/issues",
    },
    license="BSD-3-Clause",
    author="Armin Ronacher",
    author_email="armin.ronacher@active-4.com",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="A very fast and expressive template engine.",
    long_description=readme,
    classifiers=[
        "Development Status
:: 5 - Production/Stable",
        "Environment :: Web Environment",
        "Intended Audience :: Developers",
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        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.5",
        "Programming Language :: Python :: 3.6",
        "Programming Language :: Python :: 3.7",
        "Programming Language :: Python :: 3.8",
        "Programming Language :: Python :: Implementation :: CPython",
        "Programming Language :: Python :: Implementation :: PyPy",
        "Topic :: Internet :: WWW/HTTP :: Dynamic Content",
        "Topic :: Software Development :: Libraries :: Python Modules",
        "Topic :: Text Processing :: Markup :: HTML",
    ],
    packages=find_packages("src"),
    package_dir={"": "src"},
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
    install_requires=["MarkupSafe>=0.23"],
    extras_require={"i18n": ["Babel>=0.8"]},
    entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

```

Found in path(s):

\* /pallets-jinja-2-11-2-0-g737a4cd-1-tar-gz/pallets-jinja-737a4cd/setup.py

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# 1.469 packaging 16.8

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## 1.471 wsgiref 0.1.2

### 1.471.1 Available under license :

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Metadata-Version: 1.0

Name: wsgiref

Version: 0.1.2

Summary: WSGI (PEP 333) Reference Library

Home-page: <http://cheeseshop.python.org/pypi/wsgiref>

Author: Phillip J. Eby

Author-email: web-sig@python.org

License: PSF or ZPL

Description: This is a standalone release of the ``wsgiref`` library to be included in Python 2.5. For the standalone version's documentation, see:

HTML

[http://peak.telecommunity.com/wsgiref\\_docs/](http://peak.telecommunity.com/wsgiref_docs/)

PDF

<http://peak.telecommunity.com/wsgiref.pdf>

Platform: UNKNOWN

Found in path(s):

\* /wsgiref-0-1-2-zip/wsgiref-0.1.2/wsgiref.egg-info/PKG-INFO

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\* /wsgiref-0-1-2-zip/wsgiref-0.1.2/wsgiref/validate.py

## 1.472 packaging 19.2

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