



Open Source Used In WSA Secure Web Appliance 15.2.1 - SWA

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DOCUMENTATION

ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
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

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

JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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

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

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

processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

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

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

The IJG distribution formerly included code to read and write GIF files.

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

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REFERENCES

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We

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

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

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

The 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 for information on retrieving files that way.

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
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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 PBMPPLUS 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 PBMPPLUS/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

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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.

1.4 reportlab 2.4

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

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Copyright FAQ

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2. I want to package these fonts separately for distribution and sale as part of a larger software package or system. Can I do so?

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See 1. above.

3. Are derivative works allowed?

Yes!

4. Can I change or add to the font(s)?

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5. Under what terms are derivative works allowed?

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8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

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1.7 libpcap 1.4.0

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1.9 libxslt 1.1.28

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1.10 slf4j 1.7.2

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1.11 open-ldap 2.4.40

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depcomp - compile a program generating dependencies as side-effects

scriptversion=2005-07-09.11

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jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

1.15 libxml2 2.9.2

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1.16 xalan 2.7.2

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1.21 taglibs-standard 1.2.5

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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 \$
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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/NTCredentials.java,v 1.10 2004/04/18 23:51:35
jsdever 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/HttpVersion.java,v 1.6 2004/12/20 19:52:50 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/URIException.java,v 1.12 2004/09/30 18:53:20 olegk

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commons/httpclient/src/java/org/apache/commons/httpclient/protocol/ControllerThreadSocketFactory.java,v 1.2
2004/04/18 23:51:38 jsdever 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-3-1-sources-jar/org/apache/commons/httpclient/ConnectionPoolTimeoutException.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/cookie/IgnoreCookiesSpec.java,v 1.6 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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```

Found in path(s):

```
* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/IgnoreCookiesSpec.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/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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 */
```

Found in path(s):

* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/HeaderGroup.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/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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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/GetMethod.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/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

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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

\$

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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/StatusLine.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/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 $
* $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/HeaderElement.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/DigestScheme.java,v 1.22 2004/12/30 11:01:27
ogluack Exp \$

* \$Revision: 480424 \$

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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/DigestScheme.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/AuthChallengeException.java,v 1.2 2004/04/18
23:51:36 jsdever Exp \$
* \$Revision: 480424 \$
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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/cookie/NetscapeDraftSpec.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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*/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/NetscapeDraftSpec.java

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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 $
* $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/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 \$

* \$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/HttpAuthenticator.java,v 1.19 2004/10/06 17:32:04 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/MalformedChallengeException.java,v 1.6 2004/05/13 04:02:00 mbecke Exp \$

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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/MalformedChallengeException.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/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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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/multipart/FilePartSource.java
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```
/*
* $HeadRL$
* $Revision: 480424 $
* $Date: 2006-11-29 06:56:49 +0100 (Wed, 29 Nov 2006) $
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*/

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

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

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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 $
* $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/HttpConnectionManagerParams.java`

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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 $
* $Revision: 480424 $
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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/ProtocolException.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/Credentials.java,v 1.9 2004/04/18 23:51:34 jsdever
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/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/HttpsURL.java,v 1.11 2004/09/30 17:26:41 oglueck

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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 \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpMethod.java,v 1.43 2004/10/07 16:14:15 olegk
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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 \$
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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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* \$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 \$

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Found in path(s):

* /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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```
* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/ExpectContinueMethod.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/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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Found in path(s):

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

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

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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 \$

* \$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/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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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/multipart/MultipartRequestEntity.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/RequestEntity.java,v 1.4 2004/05/17 21:46:03 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/RequestEntity.java
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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 \$

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

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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-3-1-sources-jar/org/apache/commons/httpclient/HttpParser.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/DateParseException.java,v 1.5 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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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/HttpException.java,v 1.19 2004/09/30 18:53:20 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/HttpException.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/ProtocolSocketFactory.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/HttpClientError.java,v 1.4 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/util/URLConnection.java,v 1.15 2004/04/18
23:51:38 jsdever 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/AuthSchemeBase.java,v 1.7 2004/04/18 23:51:36
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* \$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/multipart/PartSource.java,v 1.6 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/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 \$

* \$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/IdleConnectionTimeoutThread.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/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/commons/httpclient/util/ParameterFormatter.java \$

* \$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/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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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/multipart/ByteArrayPartSource.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/SSLProtocolSocketFactory.java,v 1.10
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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/*

* \$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 \$

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

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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/methods/FileRequestEntity.java \$

```
* $Revision: 486665 $
* $Date: 2006-12-13 15:19:07 +0100 (Wed, 13 Dec 2006) $
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*/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/FileRequestEntity.java
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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/auth/AuthState.java,v 1.3 2004/11/02 19:39:16 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/PostMethod.java,v 1.58 2004/08/08 12:50:09
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/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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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/NoHttpResponseException.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.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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* \$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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/*

* \$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/commons/httpclient/util/LangUtils.java \$
* \$Revision: 480424 \$
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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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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/AuthScope.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/HttpAuthRealm.java,v 1.9 2004/06/12 22:47:23
olegk Exp \$

```
* $Revision: 480424 $
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*/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/auth/HttpAuthRealm.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/NameValuePair.java,v 1.17 2004/04/18 23:51:35
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/auth/AuthChallengeProcessor.java,v 1.2 2004/04/18
23:51:36 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/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/methods/multipart/Part.java,v 1.16 2005/01/14
21:16:40 olegk Exp $
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*/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/multipart/Part.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/CredentialsNotAvailableException.java,v 1.4
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/cookie/CookiePolicy.java,v 1.15 2004/09/14 20:11:31
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/multipart/FilePart.java,v 1.19 2004/04/18
23:51:37 jsdever Exp \$

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* \$Revision: 507321 \$

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ConnectTimeoutException.java,v 1.5 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/util/ParameterParser.java,v 1.5 2004/05/13 04:01:22
mbecke Exp \$

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* \$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 \$

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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 \$

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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/WireLogOutputStream.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/CookieSpec.java,v 1.11 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/util/IdleConnectionHandler.java,v 1.2 2004/05/13
02:40:36 mbecke Exp \$

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*/commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/util/IdleConnectionHandler.java
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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 \$
* \$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/PutMethod.java,v 1.26 2004/04/18 23:51:37
jsdever Exp \$
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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/PutMethod.java

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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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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/MethodRetryHandler.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/BasicScheme.java,v 1.17 2004/05/13 04:02:00 mbecke Exp \$

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

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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 \$

* \$Revision: 564973 \$

* \$Date: 2007-08-11 22:51:47 +0200 (Sat, 11 Aug 2007) \$

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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/MalformedCookieException.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/CookieSpecBase.java,v 1.28 2004/11/06
19:15:42 mbecke Exp \$

* \$Revision: 480424 \$

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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/CookieSpecBase.java
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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-3-1-sources-jar/org/apache/commons/httpclient/params/DefaultHttpParams.java

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
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-3-1-sources-jar/org/apache/commons/httpclient/DefaultHttpMethodRetryHandler.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/PartBase.java,v 1.5 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/HttpConstants.java,v 1.15 2004/04/18 23:51:35
jsdever 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/InputStreamRequestEntity.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/methods/ByteArrayRequestEntity.java,v 1.3
2004/05/13 02:26:08 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/DateParser.java,v 1.11 2004/11/06 19:15:42
 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/util/ExceptionUtil.java,v 1.5 2004/10/19 18:09:46
olegk Exp \$
* \$Revision: 480424 \$
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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>.

*

* @author <[a href="mailto:remm@apache.org"](mailto:remm@apache.org)>Remy Maucherat

* @author Rodney Waldhoff

* @author <[a href="mailto:jsdever@apache.org"](mailto:jsdever@apache.org)>Jeff Dever

* @author Ortwin Gl??ck

* @author Sean C. Sullivan

* @author Adrian Sutton
* @author Mike Bowler
* @author Oleg Kalnichevski
*/

Found in path(s):

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

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

*

* <tt>Basic</tt>: Basic authentication scheme as defined in RFC2617

* (considered inherently insecure, but most widely supported)

* <tt>Digest</tt>: Digest authentication scheme as defined in RFC2617

* <tt>NTLM</tt>:

The NTLM scheme is a proprietary Microsoft Windows

* Authentication protocol (considered to be the most secure among

* currently supported authentication schemes)

*

*

* @author Oleg Kalnichevski

*

* @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
\$

* \$Revision: 480424 \$

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

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

* \$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/RFC2965Spec.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/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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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/methods/HeadMethod.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/Protocol.java,v 1.10 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/Protocol.java

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/ChunkedOutputStream.java,v 1.16 2004/05/13 04:03:25 mbecke Exp \$

* \$Revision: 480424 \$

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

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* \$Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-commons/httpclient/src/java/org/apache/commons/httpclient/ProxyClient.java,v 1.5 2004/12/20 11:39:04 olegk Exp \$

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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/ProxyClient.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
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-3-1-sources-jar/org/apache/commons/httpclient/HttpClient.java
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/*
* $Header: /home/jerenkrantz/tmp/commons/commons-convert/cvs/home/cvs/jakarta-
commons/httpclient/src/java/org/apache/commons/httpclient/ChunkedInputStream.java,v 1.24 2004/10/10 15:18:55
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/ChunkedInputStream.java

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/*

* \$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/methods/TraceMethod.java
* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/cookie/CookieVersionSupport.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/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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* /commons-httpclient-3-1-sources-jar/org/apache/commons/httpclient/protocol/ReflectionSocketFactory.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/EncodingUtil.java,v 1.8 2004/05/13 04:01:22 mbecke Exp \$

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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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1.23 commons-io 1.3.2

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1.24 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@ravellosystems.com>
- * Allowed to skip SSL hostname verification

- * Cory Benfield
<<http://lukasa.co.uk/about/>>
- * Stream method for Response objects.
- * Return native strings in header values.
- * Generate 'Host' header when using proxies.

- * Jason Robinson <jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL

- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters

- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts

- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire

- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality

- * Danilo @dbrgn <<http://dbrgn.ch/>>
 - * Disabled TLS compression by default on Python 3.2+
 - * Disabled TLS compression in pyopenssl contrib module
 - * Configurable cipher suites in pyopenssl contrib module

- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 - * Account retries on proxy errors

- * Nicolas Delaby <nicolas.delaby@ezeep.com>
 - * Use the platform-specific CA certificate locations

- * Josh Schneier <<https://github.com/jschneier>>
 - * HTTPHeaderDict and associated tests and docs
 - * Bugfixes, docs, test coverage

- * Tahia Khan <<http://tahia.tk/>>
 - * Added Timeout examples in docs

- * Arthur Grunseid <<http://grunseid.com>>
 - * source_address support and tests (with <https://github.com/bui>)

- * Ian Cordasco <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@gmail.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]

1.25 slf4j 1.7.25

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1.26 pkix-ssh 11.0

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1.27 ecj 3.12.3

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1.28 tcsh 6.20.00

1.28.1 Available under license :

```
/*
 * 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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*/

```

1.29 Idns 1.7.0

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1.30 Izo 2.10

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Version 2, June 1991

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```

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

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```
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'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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1.31 glib 2.46.2

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End

/******

* Perl-Compatible Regular Expressions *

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

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*/

#ifndef _PCRE_H
#define _PCRE_H

/*

The current PCRE version information. */

#define PCRE_MAJOR 8
#define PCRE_MINOR 31
#define PCRE_PRERELEASE

```

#define PCRE_DATE      2012-07-06

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

#if defined(_WIN32) && !defined(PCRE_STATIC)
# ifndef PCRE_EXP_DECL
#  define PCRE_EXP_DECL extern __declspec(dllexport)
# endif
# ifdef __cplusplus
#  ifndef PCRECPP_EXP_DECL
#   define PCRECPP_EXP_DECL extern __declspec(dllexport)
#  endif
#  ifndef PCRECPP_EXP_DEFN
#   define PCRECPP_EXP_DEFN __declspec(dllexport)
#  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_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_copy_substring(const char *, int *, int, int,
    char *, int);
PCRE_EXP_DECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
    PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_dfa_exec(const pcre *, const pcre_extra *,
    const char *, int, int, int, int *, int *, int);
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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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

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```
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/*
 * Modified by the GLib Team and others 1997-2000. See the AUTHORS
 * file for a list of people on the GLib Team. See the ChangeLog
```

* 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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1.32 libtool 2.4.6

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contribution to the Google C++ Mocking Framework project. People
who commit code to the project are encouraged to add their names
here. Please keep the list sorted by first names.

Benoit Sigoure <tsuna@google.com>
Bogdan Piloca <boo@google.com>
Chandler Carruth <chandlerc@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
Dean Sturtevant
Gene Volovich <gv@cite.com>
Hal Burch <gmock@hburch.com>
Jeffrey Yasskin <jyasskin@google.com>
Jim Keller <jimkeller@google.com>
Joe Walnes <joe@truemesh.com>
Jon Wray <jwray@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>

Kostya Serebryany <kcc@google.com>
Lev Makhlis
Manuel Klimek <klimek@google.com>
Mario Tanev <radix@google.com>
Mark Paskin
Markus Heule <markus.heule@gmail.com>
Matthew Simmons <simmonmt@acm.org>
Mike Bland <mbland@google.com>
Neal Norwitz <nnorwitz@gmail.com>
Nermin Ozkiranartli <nermin@google.com>
Owen
Carlsen <ocarlsen@google.com>
Paneendra Ba <paneendra@google.com>
Paul Menage <menage@google.com>
Piotr Kaminski <piotr@google.com>
Russ Rufer <russ@pentad.com>
Sverre Sundsdal <sundsda@gmail.com>
Takeshi Yoshino <tyoshino@google.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Wolfgang Klier <wklier@google.com>
Zhanyong Wan <wan@google.com>
This file contains a list of people who have made large contributions
to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:

Sanjay Ghemawat <sanjay@google.com>
Jeff Dean <jeff@google.com>
Daniel Dulitz <daniel@google.com>
Craig Silverstein
Paul Haahr <haahr@google.com>
Corey Anderson <corin@google.com>
(and many others)

Proto2 C++ and Java primary author:

Kenton Varda <kenton@google.com>

Proto2 Python primary authors:

Will Robinson <robinson@google.com>
Petar Petrov <petar@google.com>

Java Nano primary authors:

Brian Duff <bduff@google.com>
Tom Chao <chaot@google.com>
Max Cai <maxtroy@google.com>
Ulas Kirazci <ulas@google.com>

Large code contributions:

Jason Hsueh <jasonh@google.com>
Joseph Schorr <jschorr@google.com>
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:

Scott Bruce <sbruce@google.com>
Frank Yellin
Neal Norwitz <nnorwitz@google.com>
Jeffrey Yasskin <jyasskin@google.com>
Ambrose
Feinstein <ambrose@google.com>

Documentation:

Lisa Carey <lcarey@google.com>

Maven packaging:

Gregory Kick <gak@google.com>

Patch contributors:

Kevin Ko <kevin.s.ko@gmail.com>
* Small patch to handle trailing slashes in --proto_path flag.

Johan Euphrosine <proppy@aminche.com>
* Small patch to fix Python CallMethod().

Ulrich Kunitz <kune@deine-taler.de>
* Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>
* VI syntax highlighting tweaks.
* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>
* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>
* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>
* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>
* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>
* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>
* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>
* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).

* Added generation of field number constants.
Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
* Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
* Added CodedInputStream.getTotalBytesRead().
Kacper Kowalik <xarthisius.kk@gmail.com>
* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xLC compiler build issues
* Added atomicops for AIX (POWER)
This file contains a list of people who've made non-trivial
contribution to the Google C++ Testing Framework project. People
who commit code to the project are encouraged to add their names
here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>

Kenton Varda <kenton@google.com>
Manuel Klimek <klimek@google.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotrk@google.com>
Preston
Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean McAfee <eefacm@gmail.com>
Sigurur sgeirsson <siggi@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Zhanyong Wan <wan@google.com>

1.37 jaxb-core 2.3.0

1.38 hk2-utils 2.5.0

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1.41 hk2-api 2.5.0

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Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd

- javaee_web_services_1_2.xsd

- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- 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
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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1.51 commons-beanutils 1.9.4

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1.52 Idns 1.7.1

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```

```
## DO NOT EDIT - This file generated from ./build-aux/ltmain.in
```

```
##      by inline-source v2014-01-03.01
```

```
# libtool (GNU libtool) 2.4.6
```

```
# Provide generalized library-building support services.
```

```
# Written by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
```

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```
/* From openssh 4.3p2 filename openbsd-compat/fake-rfc2553.h */
/*
```

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/*

- * FILE: sha2.c
- * AUTHOR: Aaron D. Gifford - <http://www.aarongifford.com/>
- *
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- *
- * Modified by Jelte Jansen to fit in ldns, and not clash with any
- * system-defined SHA code.
- * 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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*

* \$Id:

sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg \$

*/

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

/*

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/* From openssh4.3p2 compat/inet_aton.c */

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1.53 python-setuptools 41.2.0

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1.54 sbsigntool 1.3

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

```
@smallexample
Gnomovision version
69, Copyright (C) @var{year} @var{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.
@end smallexample
```

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

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

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

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

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Version 3, 29 June 2007

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The

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1.56 jffi 1.0.1

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

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

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1.57 libdaemon 0.14

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1.58 bzip2 1.0.7

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1.59 commons-codec 1.9

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The following artifacts are EPL and ASL2.

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

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

Oracle

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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

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-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.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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org.eclipse.jetty.toolchain:jetty-schemas

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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1.66 jetty-servlets 9.4.16.v20190411

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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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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

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1.70 ipmi-tool 1.8.18

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1.71 tcl 8.5.19

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1.72 libnettle6 3.4

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1.73 make 4.2

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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

* georgemarshal <<https://github.com/georgemarshal>>

* 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 <slingam@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@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

- * 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

- * 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>
- * Python 2.6 fixes; pyflakes and pep8 compliance

- * Andy Caldwell <andy.m.caldwell@gmail.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

- * Jess 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

- * 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
- * [Your name or handle] <[email or website]>
- * [Brief summary of your changes]

1.78 xerces-j 2.7.1

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1.82 libconfig 1.7.2

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Version 2.1, February 1999

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Files: *

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@c

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

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

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

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@item

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

to use the modified definitions.)

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

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

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

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

@end enumerate

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

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

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

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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.

@sp 1

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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.

@end enumerate

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@center END OF TERMS AND CONDITIONS

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@page

@center 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.

@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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You should have received a copy of the GNU Lesser
General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
}
@end format

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

```
@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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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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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(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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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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1.85 google-api-python-client 1.7.6

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=====

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1.86 postgres-sql 7.4.2

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=====

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1.90 libidn 1.35

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Version 3, 29 June 2007

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1.93 libxml2 2.9.10

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1.100 distlib 0.3.0

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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 (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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=====
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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!

Thanks to:

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- Pior Bastida
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1.101 bouncycastle-fips 1.0.2

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1.102 python-requests 2.23.0

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1.103 urllib3 1.25.8

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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 <<https://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@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

- * 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

- * 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>
- * 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

- * Jess 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

- * 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]
- MIT

1.104 jline 0.9.95-SNAPSHOT

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1.105 ncurses 6.2

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Upstream-Contact: Andy Cress <arcress@users.sourceforge.net>

Source: <http://ipmiutil.sourceforge.net>

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1.118 go-playground-validator 10.2.0

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1.119 gorilla 1.7.4

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

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Anton Povarov <anton.povarov@gmail.com>

Brian Goff <cpuguy83@gmail.com>

Clayton Coleman <ccoleman@redhat.com>

Denis Smirnov <denis.smirnov.91@gmail.com>

DongYun Kang <ceram1000@gmail.com>

Dwayne Schultz <dschultz@pivotal.io>

Georg Apitz <gapitz@pivotal.io>

Gustav Paul <gustav.paul@gmail.com>

Johan Brandhorst <johan.brandhorst@gmail.com>

John Shahid <jvshahid@gmail.com>

John Tuley <john@tuley.org>

Laurent <laurent@adyoulike.com>

Patrick Lee <patrick@dropbox.com>

Peter Edge <peter.edge@gmail.com>

Roger Johansson <rogersaling@gmail.com>

Sam Nguyen <sam.nguyen@sendgrid.com>

Sergio Arbo <serabe@gmail.com>

Stephen J Day <stephen.day@docker.com>

Tamir Duberstein <tamird@gmail.com>

Todd Eisenberger <teisenberger@dropbox.com>

Tormod Erevik Lea <tormodlea@gmail.com>

Vyacheslav Kim <kane@sendgrid.com>

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DanB <danb@cgrates.org>

David Wilkie <dwilkie@gmail.com>

Seyi Ogunyemi <micrypt@users.noreply.github.com>

Tapio <fitase@emblacom.com>

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Jan Mercl <0xjnm@gmail.com>
Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
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compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
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Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

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cd1

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Protocol Buffers for Go with Gadgets

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

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```
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```

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```

The following individuals contributed in part to the Network Time Protocol Distribution

Version 4 and are acknowledged as authors of this work.

1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete
broadcast and crypto features
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11. [12]Jean-Francois Boudreault
<Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help
with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference
clock driver, NT adj. residuals, integrated Greg's Winnt port.
16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for
NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows
port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X
clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping
overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
[28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original
author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC>
(driver 14 reference clocks), STREAMS modules for PARSE, support
scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to
comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX
modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig
Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code

Maintenance

37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmooore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. <mailto:%20altmeier@atsoft.de>
4. <mailto:%20vbais@mailman1.intel.co>
5. <mailto:%20kirkwood@striderfm.intel.com>
6. <mailto:%20michael.barone@lmco.com>
7. <mailto:%20karl@owl.HQ.ileaf.com>
8. <mailto:%20greg.brackley@bigfoot.com>

9. mailto:%20Marc.Brett@westgeo.com
10. mailto:%20Piete.Brooks@cl.cam.ac.uk
11. mailto:%20nelson@bolyard.me
12. mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca
13. mailto:%20reg@dwf.com
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15. mailto:%20casey@csc.co.za
16. mailto:%20Sven_Dietrich@trimble.COM
17. mailto:%20dundas@salt.jpl.nasa.gov
18. mailto:%20duwe@immd4.informatik.uni-erlangen.de
19. mailto:%20dennis@mrbill.canet.ca
20. mailto:%20jhay@icomtek.csir.co.za
21. mailto:%20davehart@davehart.com
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23. mailto:%20glenn@herald.usask.ca
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38. mailto:%20thorinn@diku.dk
39. mailto:%20mayer@ntp.org
40. mailto:%20mills@udel.edu
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42. mailto:%20mogul@pa.dec.com
43. mailto:%20tmoore@fielvel.daytonoh.ncr.com
44. mailto:%20kamal@whence.com
45. mailto:%20derek@toybox.demon.co.uk
46. mailto:%20d@hd.org
47. mailto:%20neal@ntp.org
48. mailto:%20Rainer.Pruy@informatik.uni-erlangen.de
49. mailto:%20dirce@zk3.dec.com
50. mailto:%20wsanchez@apple.com
51. mailto:%20mrapple@quack.kfu.com
52. mailto:%20jack@innovativeinternet.com
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54. mailto:%20shields@tembel.org
55. mailto:%20pebbles.jpl.nasa.gov

- 56. mailto:%20harlan@pfcs.com
- 57. mailto:%20ken@sdd.hp.com
- 58. mailto:%20ajit@ee.udel.edu
- 59. mailto:%20tsuruoka@nc.fukuoka-u.ac.jp
- 60. mailto:%20brian.utterback@oracle.com
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1.130 enum34 1.1.10

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free software which everyone can redistribute and change under these terms.

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

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

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

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

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

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These utilities are all free software, please see the licensing conditions in the opening comments of each file. Cairo is free software.

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1.136 flex 2.6.4

1.136.1 Available under license :

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1.137 bcpkix-fips 1.0.3

1.137.1 Available under license :

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

```
/**
 * 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

1.138 gnutls 3.6.15

1.138.1 Available under license :

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Version 2.1, February 1999

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Any executables

containing that work also fall under Section 6,

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source code for the Library including whatever

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1.139 tcpdump 4.9.3

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1.140 gc 6.4.0

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1.141 commons-lang3 3.1

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1.142 jackson-jaxrs-base 2.9.9

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1.143 urllib3 1.25.11

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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 <<https://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@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

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 - * 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

- * 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

- * 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>
- * 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

- * Jess 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

- * 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.

- * Jorge Lopez Silva <https://github.com/jalopezsilva>
- * 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]

1.144 pkix-ssh 12.5.1

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This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

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- IDEA is no longer included, its use is deprecated
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- RC4 support has been replaced with ARC4 support from OpenSSL
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[The licence continues]

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* @version 3.0 (December 2000)

*

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*

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

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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1.145 httpcomponents-client 4.5.13

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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

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

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>

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

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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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

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org.eclipse.jetty.toolchain:jetty-schemas

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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1.155 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',
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        '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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1.156 linenoise 1.0

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1.171 pcre 10.36

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Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

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PCRE2 JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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1.172 zstd 1.4.8

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1.173 llvm 11.0.1

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Arne Beer <arne@twobeer.de>

Billy

Robert O'Neal III <billy.oneal@gmail.com> <bion@microsoft.com>
Chris Kennelly <ckennelly@google.com> <ckennelly@ckennelly.com>
Christopher Seymour <chris.j.seymour@hotmail.com>
Cyrille Faucheux <cyrille.faucheux@gmail.com>
David Coeurjolly <david.coeurjolly@liris.cnrs.fr>
Deniz Evrenci <denizevrenci@gmail.com>
Dominic Hamon <dma@stripysock.com> <dominic@google.com>
Dominik Czarnota <dominik.b.czarnota@gmail.com>
Eric Fiselier <eric@efcs.ca>
Eugene Zhuk <eugene.zhuk@gmail.com>
Evgeny Safronov <division494@gmail.com>
Federico Ficarelli <federico.ficarelli@gmail.com>
Felix Homann <linuxaudio@showlabor.de>
Ismael Jimenez Martinez <ismael.jimenez.martinez@gmail.com>
Jern-Kuan Leong <jernkuan@gmail.com>
JianXiong Zhou <zhoujianxiong2@gmail.com>
Joao Paulo Magalhaes <joaoppmagalhaes@gmail.com>
John Millikin <jmillikin@stripe.com>
Jussi Knuuttila <jussi.knuuttila@gmail.com>
Kai Wolf <kai.wolf@gmail.com>
Kishan Kumar <kumar.kishan@outlook.com>
Kaito Udagawa <umireon@gmail.com>
Lei Xu <eddyxu@gmail.com>

Matt

Clarkson <mattyclarkson@gmail.com>
Maxim Vafin <maxvafin@gmail.com>
Nick Hutchinson <nshutchinson@gmail.com>
Oleksandr Sochka <sasha.sochka@gmail.com>
Ori Livneh <ori.livneh@gmail.com>
Pascal Leroy <phl@google.com>
Paul Redmond <paul.redmond@gmail.com>
Pierre Phaneuf <pphaneuf@google.com>
Radoslav Yovchev <radoslav.tm@gmail.com>
Raul Marin <rmrodriguez@cartodb.com>
Ray Glover <ray.glover@uk.ibm.com>
Robert Guo <robert.guo@mongodb.com>
Roman Lebedev <lebedev.ri@gmail.com>
Shuo Chen <chenshuo@chenshuo.com>
Tobias Ulvgrd <tobias.ulvgard@dirac.se>
Tom Madams <tom.ej.madams@gmail.com> <tmadams@google.com>
Yixuan Qiu <yixuanq@gmail.com>
Yusuke Suzuki <utatane.tea@gmail.com>
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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* %lshr.iv to i32*
%1 = load i32, i32* %0, align 4
unreachable

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

exit.2:                                  ; preds = %exit
%cgep22 = getelementptr %struct.0, %struct.0* %lshr.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]})p) # 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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# Please keep the list sorted.

Albert Pretorius <pretoalb@gmail.com>
Arne Beer <arne@twobeer.de>
Billy
Robert O'Neal III <billy.oneal@gmail.com> <bion@microsoft.com>
Chris Kennelly <ckennelly@google.com> <ckennelly@ckennelly.com>
Christopher Seymour <chris.j.seymour@hotmail.com>
David Coeurjolly <david.coeurjolly@liris.cnrs.fr>
Deniz Evrenci <denizevrenci@gmail.com>

```

Dominic Hamon <dma@stripsock.com> <dominic@google.com>
Dominik Czarnota <dominik.b.czarnota@gmail.com>
Eric Fiselier <eric@efcs.ca>
Eugene Zhuk <eugene.zhuk@gmail.com>
Evgeny Safronov <division494@gmail.com>
Felix Homann <linuxaudio@showlabor.de>
Ismael Jimenez Martinez <ismael.jimenez.martinez@gmail.com>
Jern-Kuan Leong <jernkuan@gmail.com>
JianXiong Zhou <zhoujianxiong2@gmail.com>
Joao Paulo Magalhaes <joaoppmagalhaes@gmail.com>
John Millikin <jmillikin@stripe.com>
Jussi Knuuttila <jussi.knuuttila@gmail.com>
Kai Wolf <kai.wolf@gmail.com>
Kishan Kumar <kumar.kishan@outlook.com>
Kaito Udagawa <umireon@gmail.com>
Lei Xu <eddyxu@gmail.com>
Matt Clarkson <mattyclarkson@gmail.com>
Maxim Vafin <maxvafin@gmail.com>
Nick Hutchinson
<nshutchinson@gmail.com>
Oleksandr Sochka <sasha.sochka@gmail.com>
Pascal Leroy <phl@google.com>
Paul Redmond <paul.redmond@gmail.com>
Pierre Phaneuf <pphaneuf@google.com>
Radoslav Yovchev <radoslav.tm@gmail.com>
Raul Marin <rmrodriguez@cartodb.com>
Ray Glover <ray.glover@uk.ibm.com>
Robert Guo <robert.guo@mongodb.com>
Roman Lebedev <lebedev.ri@gmail.com>
Shuo Chen <chenshuo@chenshuo.com>
Tobias Ulvgrd <tobias.ulvgard@dirac.se>
Tom Madams <tom.ej.madams@gmail.com> <tmadams@google.com>
Yixuan Qiu <yixuanq@gmail.com>
Yusuke Suzuki <utatane.tea@gmail.com>
Zbigniew Skowron <zbychs@gmail.com>

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Ajay Joshi <jaj@google.com>

Balazs Dn <balazs.dan@gmail.com>

Bharat Mediratta <bharat@menalto.com>

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Peter Kaminski <piotrk@google.com>
Preston
Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean McAfee <eefacm@gmail.com>
Sigurur sgeirsson <siggi@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Zhanyong Wan <wan@google.com>

1.176 httpcomponents-core 4.4.13

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1.177 commons-lang3 2.6

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1.180 bcel 2.7.2

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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) {
    _xslt.setMultiDocument(flag);
}

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

public void setHasIdCall(boolean flag) {
    _xslt.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
: _xslt.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) ? _xslt.registerAttribute(name)
: _xslt.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.DESCENDANT);
}
:}

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.DESCEANTORSELF,
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.DESCEANTORSELF,
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.DESCEANTORSELF,
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.DESCEANTORSELF,
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, argl);
}

```

```

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

RESULT = new NameCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
    RESULT = new GenerateIdCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
    RESULT = new NotCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
    RESULT = new FormatNumberCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
    RESULT = new UnparsedEntityUriCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
    RESULT = new KeyCall(fname, argl);
    parser.setHasIdCall(true);
}
else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
{
    RESULT = new CeilingCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}
else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}
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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* distributed under the License is distributed on an "AS IS" BASIS,
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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-\uFFFF] | \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

*

/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

* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh.java

* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java

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

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

* /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

*

/xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIteratorSorted.java

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

* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java

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

* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstring.java

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

* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncConcat.java

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- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_ko.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/XSLTSource.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/axes/AttributeIterator.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToIntTable.java
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- /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/LoadDocument.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/serializer/serializer/SerializerMessages_hu.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/SecuritySupport.java
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- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Pattern.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMEnhancedForDTM.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SecuritySupport.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MatchingIterator.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNot.java
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- /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTAttributeDef.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToStringTableVector.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/If.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ObjectFactory.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerTraceWriter.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Lt.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/utils/PrefixResolver.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_en.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToTextSAXHandler.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/StringArrayWrapper.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Choose.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemFallback.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanProperties.java
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- /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyIterator.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/utils/DOM2Helper.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Hashtable.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionIterator.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NthIterator.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Stylesheet.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_sk.java
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- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessage_pt_BR.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLMessages.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeProxy.java
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 * /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionsTable.java
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 * /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToSAXHandler.java
 * /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_ca.java
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 * /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_TW.java
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 * /xalan-2-7-2-sources-jar/org/apache/xalan/templates/AVTPartXPath.java
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 /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ExtendedLexicalHandler.java
 * /xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitable.java
 * /xalan-2-7-2-sources-jar/org/apache/xalan/templates/WhiteSpaceInfo.java
 * /xalan-2-7-2-sources-jar/org/apache/xalan/trace/EndSelectionEvent.java
 * /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLang.java
 * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/DOM2SAX.java
 * /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ka.java
 * /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerIdentityImpl.java
 * /xalan-2-7-2-sources-jar/org/apache/xml/utils/IntVector.java
 * /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorGlobalVariableDecl.java
 * /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_tr.java
 * /xalan-2-7-2-sources-jar/org/apache/xpath/axes/PredicatedNodeTest.java
 * /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/OpCodes.java
 * /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_hy.java
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 * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralElement.java
 * /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTextLiteral.java

- * /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Utils/SerializerMessages_de.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Step.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/util/IntegerArray.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessageMessages_pt_BR.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XString.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMessageMessages_de.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/axes/DescendantIterator.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToXMLStream.java
- * /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/runtime/ErrorMessageMessages.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/trax/SecuritySupport.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/FilterParentPath.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Sort.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLast.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/CeilingCall.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function3Args.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/Utils/URI.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/XPath.java
- * /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
- * /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_pt_BR.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/serializer/NamespaceMappings.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorsResources_zh.java
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- /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/AttributeValue.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NodeSortKey.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_ko.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorsResources_tr.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/Utils/res/XResourceBundleBase.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMFilter.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Key.java
- * /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
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/ContainsCall.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_zh_TW.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorsResources_sv.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/Utils/res/LongArrayWrapper.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
- * /xalan-2-7-2-sources-jar/org/apache/xml/Utils/res/XResources_ko.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/NodeSortRecord.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNormalizeSpace.java

- * /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
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/BasisLibrary.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Parameter.java
- *
- /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_pl.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNodeSetForDOM.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_es.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemCopy.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerConstants.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/LSSerializerImpl.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/VariableRefBase.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLStringFactoryDefault.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyManager.java
- * /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
- *
- /xalan-2-7-2-sources-jar/org/apache/xml/utils/NodeVector.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/utils/SuballocatedIntVector.java
- * /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
- * /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeIterator.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/EnvironmentCheck.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_fr.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/lib/ExsltStrings.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResourceBundle.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/templates/XUnresolvedVariableSimple.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessage_tr.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_zh_TW.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AlternativePattern.java
- *
- /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Neg.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/NodeSet.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNull.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/serializer/dom3/DOMErrorHandlerImpl.java
- * /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MultiHashtable.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XRTreeFrag.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemNumber.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorNamespaceAlias.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/trace/TraceManager.java
- * /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XObject.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemExtensionScript.java
- * /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/ClonerToResultTree.java

* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/AVTPart.java
 *
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/cmdline/getopt/GetOptsException.java
 * /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOM.java
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 - /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

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/xpath/domapi/XPathStylesheetDOM3Exception.java
No license file was found, but licenses were detected in source scan.
```

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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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```

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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
```

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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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```

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* 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.
*/
/**
* 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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* 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
```

1.181 chardet 4.0.0

1.181.1 Available under license :

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Version 2.1, February 1999

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Section 6 states terms for distribution of such executables.

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

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- a) Accompany the work with the complete corresponding machine-readable

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1.182 jakarta-annotation-api 1.3.4

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Source Code

The project maintains the following source code repositories:

* <https://github.com/eclipse-ee4j/common-annotations-api>

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1.183 javassist 3.22.0-CR2

1.183.1 Available under license :

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```
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 */
```

Found in path(s):

```
* /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
*
/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ClassFilePrinter.java
* /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
* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/NewExpr.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/DeprecatedAttribute.java
* /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
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/Tracer.java
- * /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
- *
- /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/LocalVariableAttribute.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/CodeGen.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/MultiType.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Declarator.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyObject.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Util.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/EnclosingMethodAttribute.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/DoubleConst.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/Dump.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/ControlFlow.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/CtMethod.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/LineNumberAttribute.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/CodeIterator.java
- *
- /javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolRepository.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Stmnt.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/NoSuchClassError.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/TypedBlock.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/CodeConverter.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformNewClass.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Visitor.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/CtMember.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ByteArray.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/framedump.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Cast.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyFactory.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SignatureAttribute.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/ClassClassPath.java
- *
- /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/MethodCall.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ClassFileWriter.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/CannotCompileException.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformReadField.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/stackmap/TypeData.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewClass.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/Callback.java
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- * /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
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- * /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/StubGenerator.java

* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/ObjectNotFoundException.java
 *
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 * /javassist-3-22-0-cr2-sources-4-jar/javassist/CtClass.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/SoftValueHashMap.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/ProxyObjectInputStream.java
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 * /javassist-3-22-0-cr2-sources-4-jar/javassist/CtField.java
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 * /javassist-3-22-0-cr2-sources-4-jar/javassist/runtime/Desc.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/StringL.java
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 * /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewNestedClass.java
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 * /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/Proxy.java
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 * /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/web/Webserver.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
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- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ExceptionTable.java
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- * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ProceedHandler.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/NewArray.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SourceFileAttribute.java
- * /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/convert/TransformAccessArrayField.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/web/Viewer.java
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- * /javassist-3-22-0-cr2-sources-4-jar/javassist/Loader.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/Expr.java
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- * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Symbol.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/ObjectImporter.java
- *
- /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Frame.java
- * /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
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/Bytecode.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/InstanceOfExpr.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/NewExpr.java
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- * /javassist-3-22-0-cr2-sources-4-jar/javassist/expr/ExprEditor.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/AccessFlag.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/ClassPath.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Analyzer.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/CtClassType.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/CannotInvokeException.java
- *
- /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/AnnotationsAttribute.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/util/HotSwapper.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Compiler.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/LongVector.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/FieldDecl.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/web/BadHttpRequest.java
- * /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewConstructor.java

* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/CastExpr.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/Javac.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/SerialVersionUID.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/MethodInfo.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Metaobject.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformAfter.java
 *
 /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/Descriptor.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/CallExpr.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/IntConst.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/AnnotationDefaultAttribute.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformBefore.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/JvstTypeChecker.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/LoaderClassPath.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ParameterAnnotationsAttribute.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Variable.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/CtNewMethod.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ASTree.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/Mnemonic.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/ClassPool.java
 *
 /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ExceptionsAttribute.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/URLClassPath.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/scopedpool/ScopedClassPoolFactory.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ArrayInit.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/Loader.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformFieldAccess.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/DuplicateMemberException.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/CondExpr.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/ASTList.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/ast/Keyword.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformWriteField.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstPool.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/analysis/Type.java
 *
 /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/StackMapTable.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/util/HotSwapAgent.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/MemberCodeGen.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/ClassMap.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/CompileError.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/rmi/RemoteException.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/ConstantAttribute.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/AccessorMaker.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/util/proxy/SerializedProxy.java
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 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/StringMemberValue.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ClassMemberValue.java
 *
 /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/Annotation.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ShortMemberValue.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/DoubleMemberValue.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/EnumMemberValue.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ArrayMemberValue.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ByteMemberValue.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/MemberValue.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/BooleanMemberValue.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/IntegerMemberValue.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/MemberValueVisitor.java
 *
 /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/CharMemberValue.java
 * /javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/LongMemberValue.java

1.184 javax-ws-rs-api 2.0

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1.185 commons-codec 1.3

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- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/package.html
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/overview.html
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/binary/package.html
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/digest/package.html
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/language/package.html
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- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/digest/DigestUtils.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/net/URLConnection.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/Encoder.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/net/StringEncodings.java
- *
- /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/net/QCodec.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/net/RFC1522Codec.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/StringEncoder.java

- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/binary/Base64.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/net/BCCodec.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/binary/BinaryCodec.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/language/RefinedSoundex.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/DecoderException.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/StringEncoderComparator.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/language/Soundex.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/BinaryEncoder.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/binary/Hex.java
- *
- /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/net/QuotedPrintableCodec.java
- * /commons-codec-1-3-sources-1-jar/org/apache/commons/codec/language/Metaphone.java
- * /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

1.186 clang 6.0.0

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- * /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

License: UNKNOWN

Description: UNKNOWN

Platform: UNKNOWN

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1.187 jakarta-ws-rs-api 2.1.5

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1.190 jetty-continuation 9.4.16.v20190411

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Eclipse

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* 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

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

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

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

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

Apache

The following artifacts are ASL2 licensed.

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

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.193 txw2 2.3.0

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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /asm-all-3-2-sources-2-jar/org/objectweb/asm/xml/Processor.java
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- * /asm-all-3-2-sources-2-jar/org/objectweb/asm/FieldWriter.java
- *
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 - * /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/SourceValue.java
 - * /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/SmallSet.java
 - * /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/StaticInitMerger.java
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 - * /asm-all-3-2-sources-2-jar/org/objectweb/asm/AnnotationWriter.java
 - * /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/InsnList.java
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- * /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
- * /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/ClassNode.java
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- * /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
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- * /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
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- * /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/Frame.java
* /asm-all-3-2-sources-2-jar/org/objectweb/asm/ClassReader.java
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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/MethodWriter.java
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* /asm-all-3-2-sources-2-jar/org/objectweb/asm/tree/FieldInsnNode.java
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1.200 libuv 1.41.0

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Contributors

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Original Author:

- [Dave Gamble](https://github.com/DaveGamble)

Current Maintainer:

- [Max Bruckner](https://github.com/FSMaxB)

- [Alan Wang](https://github.com/Alanscut)

Contributors:

- * [Ajay Bhargav](https://github.com/ajaybhargav)
- * [Alper Akcan](https://github.com/alperakcan)
- * [Andrew Tang](https://github.com/singku)
- * [Anton Sergeev](https://github.com/anton-sergeev)
- * [Benbuck Nason](https://github.com/bnason-nf)
- * [Bernt Johan Damslara](https://github.com/bjda)
- * [Bob Kocisko](https://github.com/bobkocisko)
- * [Christian Schulze](https://github.com/ChristianSch)
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- * [Chen Yuan](https://github.com/zjuchenyuan)
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- * Eswar Yaganti
- * [Evan Todd](https://github.com/etodd)
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- *

Ian Mobley

- * Irwan Djadjadi
- * [HuKeping](https://github.com/HuKeping)
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1.204 tomcat-api 8.5.32

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1.205 pyjwt 1.5.3

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```

```
jar/com/azure/core/serializer/json/jackson/JacksonJsonSerializerBuilder.java
```

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1.210 openssl 1.1.1k

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1.212 ucl 1.03

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1.214 tomcat-juli 8.5.32

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1.215 libiconv 1.14_11

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1.217 jackson-mapper-asl 1.0.1

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```
/* Jackson JSON-processor.  
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*/
```

Found in path(s):

```
* /jackson-mapper-asl-1-0-1-sources-1-jar/org/codehaus/jackson/map/MappingJsonFactory.java
```

1.218 tomcat-jdbc 8.5.32

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1.219 tomcat-dbcP 8.5.32

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Version 3, 29 June 2007

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1.224 tcp-wrappers 7.6.24

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1.226 tomcat-coyote 8.5.32

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 * /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
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 * /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/http/fileupload/FileUploadBase.java
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 * /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/modeler/NotificationInfo.java

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* /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
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* /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
*/

```

Found in path(s):

```
* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/jsse/JSSEUtil.java
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```

Found in path(s):

```

* /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/bcel/classfile/ConstantLong.java
*
* /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/tomcat/util/modeler/mbeans-descriptors.dtd
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Found in path(s):

- * /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
- *
- /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/JSSESSLContext.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
- *
- /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/JSSEImplementation.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/TLSClientHelloExtractor.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/JSSESupport.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/ErrorState.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/InputFilter.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/ChunkedInputFilter.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/GzipOutputFilter.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/IdentityOutputFilter.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
- * /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/openssl/ciphers/KeyExchange.java
- * /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/StreamRunnable.java
- * /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/filters/ChunkedOutputFilter.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/FastHttpDateFormat.java
- * /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http2/Http2OutputBuffer.java
- * /tomcat-coyote-8-5-32-sources-1-jar/org/apache/coyote/http11/Http11InputBuffer.java
- * /tomcat-coyote-8-5-32-sources-1-jar/org/apache/tomcat/util/net/SocketProcessorBase.java
- * /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/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):

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1.230 tomcat-jasper 8.5.32

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1.231 libpkit 0.23.10

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1.232 tomcat-storeconfig 8.5.32

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1.233 tomcat-jni 8.5.32

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1.234 tomcat-catalina-ha 8.5.32

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```

Found in path(s):

```
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/JspEngineInfo.java  
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/SimpleTag.java  
*  
/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/JspWriter.java
*
/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/ErrorMessage.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
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/ExpressionEvaluator.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagAttributeInfo.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/BodyTagSupport.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/el/ScopedAttributeELResolver.java
* /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
*
/tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/TagAdapter.java
* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/tagext/VariableInfo.java

* /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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* /tomcat-jsp-api-8-5-32-sources-1-jar/javax/servlet/jsp/resources/jspxml.dtd

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1.236 tomcat-jaspic-api 8.5.32

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```
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* /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

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1.238 tomcat-websocket-api 8.5.32

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1.239 tomcat-util-scan 8.5.32

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1.240 tomcat-i18n-fr 8.5.32

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Upstream Author(s):

Steven Knight
knight at baldmt dot com
<http://www.baldmt.com/~knight/>

With plenty of help from the SCons Development team:

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

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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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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.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system;

it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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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.

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 Library General Public License for more details.

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 3, 29 June 2007

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Preamble

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The licenses for most software and other practical works are designed

to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

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

To protect your rights, we need to 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:

(1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

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

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

ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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

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

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

An interactive user interface displays "Appropriate Legal Notices"

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

1. Source Code.

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

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

The

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

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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

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

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately
publish on each copy an appropriate copyright notice;
keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code;
keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

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:

- a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- 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.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for

the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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1.252 pbr 3.1.1

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1.253 pyyaml 5.3.1

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/**

* markupsafe._speedups

* ~~~~~

*

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1.257 msgpack 1.0.0

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1.258 python-babel 2.8.0

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1.259 pytz 2020.1

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1.261 cython 0.29.21

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1.262 godspeed-rpc 1.0.0-000

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1.266 watch-dog 0.10.7

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1.267 alabaster 0.7.6

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1.268 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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In addition,

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This option is useful when you wish to copy part of the code of the

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

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Version 3, 29 June 2007

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1.271 go-toml 1.9.0

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1.272 avahi 0.6

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When a "work that uses the Library" uses material from a header file

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b) Use a suitable shared library mechanism for linking with the

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1.273 tevent 0.10.2

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1.274 talloc 2.3.1

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1.275 go-playground-locales 0.14.0

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1.276 leodido-go-urn 1.2.1

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1.277 go-playground-universal-translator

0.18.0

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1.278 golang-snappy 0.0.3

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1.279 nkeys 0.3.0

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1.280 libcxx 6.0.0

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1.281 highwayhash 1.0.2

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1.282 nginx 1.12.1

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1.283 coverage 3.6

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* 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"
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*
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*
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*
* QUnit.diff("the quick brown
fox jumped over", "the quick fox jumps over") == "the quick brown fox jumped
<ins>jumps </ins> over"
*/

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1.284 libdwarf 20161124

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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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1.285 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

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```
</pre>
```

Little Color Management System (LCMS) v2.9

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<pre>

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```
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### xwd utility  
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CUP Parser Generator for Java v 0.11b

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Benoit Sigoure <tsuna@google.com>
Bogdan Piloa <boo@google.com>
Chandler Carruth <chandlerc@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
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Gene Volovich <gv@cite.com>
Hal Burch <gmock@hburch.com>
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Jim Keller <jimkeller@google.com>
Joe Walnes <joe@truemesh.com>
Jon Wray <jwray@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kostya Serebryany <kcc@google.com>
Lev Makhlis
Manuel Klimek <klimek@google.com>
Mario Tanev <radix@google.com>

Mark Paskin
Markus Heule <markus.heule@gmail.com>
Matthew Simmons <simmonmt@acm.org>
Mike Bland <mbland@google.com>
Neal Norwitz <nnorwitz@gmail.com>
Nermin Ozkiranartli <nermin@google.com>
Owen
Carlsen <ocarlsen@google.com>
Paneendra Ba <paneendra@google.com>
Paul Menage <menage@google.com>
Piotr Kaminski <piotrk@google.com>
Russ Rufer <russ@pentad.com>
Sverre Sundsdal <sundsald@gmail.com>
Takeshi Yoshino <tyoshino@google.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Wolfgang Klier <wklier@google.com>
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Ajay Joshi <jaj@google.com>

Balzs Dn <balazs.dan@gmail.com>

Bharat Mediratta <bharat@menalto.com>

Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
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Manuel Klimek <klimek@google.com>
Markus Heule <markus.heule@gmail.com>
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Mikls Fazekas <mfazekas@szemafor.com>
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Russ Cox <rsc@google.com>
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include/GL/gl.h :

Mesa 3-D
graphics library

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Dynalink v.5

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1.286 websocket-client 0.59.0

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1.288 cython 0.15.1

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1.289 sphinx 1.8.5

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1.290 pep517 0.5.0

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1.291 glib 2.66.7

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1.292 log4j-api 2.17.1

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1.295 icu 70

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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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1.296 google-renameio 1.0.1

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1.297 constantine 0.7

1.297.1 Available under license :

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```
<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>
</build>

```

```

    </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

1.298 jaffl 0.5.1

1.298.1 Available under license :

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```

<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>
      <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

1.299 jnr-netdb 0.4

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1.303 jackson-dataformat-yaml 2.11.2

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1.305 jackson-jaxrs 2.9.9

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1.307 boost 1.66

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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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      <year>2018</year> <holder>Joe Blow, John Coe</holder>
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```

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)

Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM EST)

Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (djg
-at- cray.com) (See Boost list message of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un5o6n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando
Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssaue (Gottfried.Ganssaue -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganaue (Gottfried.Ganssaue -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssaue)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv
Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuittinen ilari.kuittinen -at- housemarque.fi)
Howard Hinnant (hinnant -at- twcnv.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()

Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrvi (jajarvi -at- osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevin -at- curbralan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, llee - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, wintermantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensoides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunsteleve (RWGrosse-Kunsteleve@lbl.gov)
Ralf W. Grosse-Kunsteleve (RWGrosse-Kunsteleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- flll.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempp (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (sccleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve
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The Trustees of Indiana University ()
Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)
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--- 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 Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied

the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu(hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson(brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen(Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard(beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz(schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

1.308 elfutils 0.170-1

1.308.1 Available under license :

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1.312 python-setuptools 44.1.1

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1.314 asyncio-nats-client 0.11.5

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1.315 heimdall 1.0.0-000

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@end macro  
  
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@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
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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kdc/announce.c

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@heading Richard Outerbridge

DES core in libcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

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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Windows support

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lib/hcrypto/test_dh.c

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Jean-loup Gailly Mark Adler
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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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1.318 stunnel 5.57

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The original code is FirewallControl.pas, released April 16, 2007.

The initial developer of the original code is Rainer Budde (<http://www.speed-soft.de>).

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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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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

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>

Date: 2005-02-24

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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']  
    )
```

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1.322 pyrex 0.9.5.1a

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=JvRG@~
p
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=JSG@~p
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G@,G@~G@~QJHG@~Qtr(hURrG@~G@ G@~QG@~QJ?G@~Qtr(hURrG@
=pG@G@~\(\G@XJ@G@Xtr(hURrG@G@(\G@~zGG@~JG@~tr(hURrG@~))(\G@~PG@})G@~J_G@~tr(hUR
rG@}G@}G@}#
=pG@}2\(\JmG@}2\(\tr(hURrG@}AG@}G@}4\(\G@}wzHJ4QG@}wzHtr(hURrG@}QG@}G@}LzGG@}`(\J>G
@}`(\tr(hURrG@}@G@}G@}ffffG@}pzGJ4>G@}pzGtr(hU RrG@}zffffG@}G{G@|G@|=p
J"JG@|=p
tr(hURrG@|G{G@|=p
G@|pQG@|
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=qtr(hU
RrG@|ffffG@|zGG@|(\G@|J=G@|tr(hURrG@|G@}RzGG@|QG@}G{JVG@}G{tr(hURrG@}
G@}"zGG@|QG@|QJ=G@|Qtr(hURrG@|G@}bffffG@|\)G@}_
=pJ@^G@}_
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=G@}G{G@};
=pG@}\(JVG@}\(\tr (hURr
G@}
=pG@~C
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|
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G@|d
=qG@|z=p
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JQ)G@}6=p
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=qJ0*G@}\$
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scene.ico | Crystal
source.ico | Crystal

PDB2PQR

Main Authors (alphabetical):

Nathan A. Baker (baker@biochem.wustl.edu)
Paul Czodrowski
Todd Dolinsky (todd@ccb.wustl.edu)
Jan H. Jensen
Jens E. Nielsen

Additional contributing authors listed in the code documentation.

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=tr (hU
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=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@BJPnUG@ 33333tr' (hURr(G@BG@BG@BG@B
=qJ@G@!W
=ptr) (hU
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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
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Rr
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=p

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=qG@I`J"-G@(tr/(hURr0G@I`G@J@G@I`G@IJ,HG@(p
=tr1(hURr2G@IG@JG@IG@I
=qJ#G@)
=p
tr3(hURr4G@J
G@K G@JG@J
=qJDJG@)\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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=qJp0)G@ ffffftr(hURrG@@G@@
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=qJ{G@ GzHtr(hURrG@@
=qG@@G@@
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=qG@Ap

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=qG@2\(\G@3J pG@#tr (hURr G@3GzHG@3p
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=qG@3^QJG@#aGztr (hURr G@3^QG@3p
=qG@2QG@2@J G@"=p
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=qG@2@G@3@JIG@#=#p
=tr (hURr G@3^QG@4G@3@G@4^QJG@\$aGztr (hURr G@4QG@6\(\G@4
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(hURr G@4
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Rr G@2QG@3\(\G@20
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=qG@4p
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=G@9

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J`G@
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=p
G@.
=p
JpG@
=p
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G@-p
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=ptr[**(hU
Rr*G@PQG@PG@P(\)G@P-p
=JwG@P-p
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G@Q
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G@U
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G@^=p
JG@^=p
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=pJG@^#
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Icon original authors and license

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PermissioncBsSeZdZeZeZeZe e

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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

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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=
#<@q=
0<@peAR&A)h<@)\<@<@Gz<@ @AR&Ap=
<@(\<@;@;@;AR&AHz<@zG<@(\;@Q<@9AR&A33333s<@<@q=
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=
<@ @MAR&A)\<@33333=@Q<@)\<@BAR&A{G<@=@<@Hz<@HAR&A)\<@Q<@{Gz<@Gz<@xAR&A3
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(\;@
p=
;@)\9@Q:@\$AR&AQ^:@q=
p:@\(:@p=
#:@@AS&AY:@:@
p=J:@Gz:@xAS&Ap=
:@Q:@(\;@R:@ " AS&Affff&:@RQ:@:@:@x[A
S&A(\B:@L:@:@{G::@,DAS&AzGa:@=
p}:@Hz:@@h=AS&AQ:@{G::@:@K7A:@AS&A(\;@~jt:@Q9@9@AS&A9@p=
#:@9@{G9@,AS&A(\9@Gz9@33333s9@q=
9@3AS&A333339@Q:@q=
p9@9@A
S&Ap=
c9@q=
p9@333338@ffff&9@A"S&AGzT9@p=
9@Q9@ffff&9@ @ASS&A
p=J9@
p=9@Q+9@Y9@0gA&S&AQ+9@K79@Gz9@9@A(S&AGzT9@zGa9@Gz9@(\9@TA.S&AGzT9@(\9@HzG9
@{G9@bA0S&AQ9@333339@zGa9@fffff9@A2S&A(\9@zG9@RQ9@33333s9@h>A6S&A9@9@fffff9@(\9
@@WA<S&Afffff9@(\5:@9@p=
9@xIA>S&A333339@p=
:@(\9@)\9@jKA@S&AR9@R:@Q9@Q9@3ABS&AQ9@{G::@)\9@333333:@ADS&A(\9@{Gz:@%C9@{G9
@Lf AJS&AQ:@p=

W:@(\9@=
p=:@ALS&Aq=
p:@\(:@@:@zGa:@
ANS&A33333s:@zG:@zGa:@p=
:@DAPS&Ap=
:@Q:@HzG:@\(:@ARS&Aq=
:@(\:@:@ffff:@LfAXS&A;@;@Gz:@=
p:@@0AZS&AGz:@)\(:@Q:@\(:@A\S&A
p=
;@Gz;@:@
p=
;@A^S&A;@33333s;@;@fffff;@-A`S&A=
p};@;@q=
0;@\(:@XWafS&A)\(:@Gzn;@Q:@Gz.;@0AhS&AQ+;@p=
W;@\(:@ffff&;@xAjS&Ap=
#;@)\(:@;@
p=
;@MsAnS&A;@@;@;@\5;@gAtS&A(\5;@Hz;@)\(:@(\u;@HAvS&A)h;@;@fffff;@Q;@
hAxS&AQk;@;@{G;@Q^;@%A|S&AGz;@Q;@GzT;@33333s;@6AS&A{G;@Gz.<@Q;@p=
#<@D8AS&Aq=
0<@HzG<@R<@=
p=<@H6dAS&AQ+<@\O<@(\<@(\5<@h%AS&Ap=
c<@{Gz<@<@)\(<@AS&AHz<@V-<@p=
;@);@.AS&AQ;@{G;@Y;@R;@AS&A
p;@p=
;@(\B;@Gzn;@8AS&A(\;@{G;@Qx;@33333;@AS&A;@Q;@Qk;@
p;@TAS&A=
p;@zG;@Hz;@(\;@}AS&A=
p;@333333<@Gz;@<@hAAS&AzG!<@L<@;@L<@AS&AQ^<@q=
p<@q=
;@(\<@hqAS&AQE<@(\<@Q8<@{Gz<@WAS&A=
p}<@Gz<@RQ<@<@8AS&A<@Q<@Q8<@<@('&AS&AHzG<@q=
p<@Qx;@(\;@0AS&AHz;@33333;@R;@);@fAS&A;@fffff;@;@fffff;@SAS&AzG;@;@=
p;@fffff;@/AS&AQk;@;@Gz.;@
p=J;@AS&Afffff;@Gzn;@(\;@(\;@AS&A(\;@Q+;@Gz:@(\;@h~AS&A;@q=
0;@Gz:@Gz;@AS&AGz.;@v;@;@fffff;@AS&A(\(:@fffff&;@R;@Q;@`AS&A33333;@{G;@;@fffff&;@|AS
&Ap=
;@fffff&;@Gz:@33333;@h[AS&A{G;@(\;@;@p=
:@AS&A33333;@;@p=
:@=
p:@pdAS&AQ;@\(:@=
p:@Q:@MAS&Afffff;@{G;@Gzn:@(\u;@xAS&Afffff;@Q;@;@R;@AS&A;@(\;@Yz:@\(:@PAS&A;@33333;
@;@zG;@?oAS&Ap=
:@=
p:@\(:@33333;@AS&AzG;@fffff;@)h;@;@AS&A{Gz;@Q;@Y;@Hz;@HAS&Afffff;@Q;@;@33333;@AS&
AzG;@q=
:@Y;@Q^:@(AS&AY;@;@Q8;@Q^:@p6;AS&AQ^:@Qk;@(\5;@Q^:@(AS&A{G;@;@;@33333;@Y;@0AT&A
(\O;@Y;@(\9@Gz9@IAT&A9@Q9@

p=9@{G9@WAT&A)\9@9@Y9@Q^9@AT&A3333339@Hz9@R9@p=
9@qAT&AzGa9@(\9@{G:9@zGa9@AT&AGzT9@Gzn9@(\9@)\(9@iAT&AQE9@Q^9@9@Gz.9@6AT&A@9
@(\u9@(\9@zG!9@`AT&AHz9@Hz9@Gz8@p=
8@+bAT&Ap=
8@q=
8@(\8@zG8@tAT&AHz8@p=
8@(\8@8@yAT&AzG8@)\8@(\8@ffff&8@tA
T&A\(\8@Gz8@Gz.8@)\h8@aDA"T&A8@=
p=9@Gz8@q=
09@nA\$T&A\(\9@(\9@9@Hz9@^A*T&A=
p=9@ffff9@9@(\09@A,T&Aq=
09@GzT9@Hz9@3333339@#A.T&Aq=
09@3333339@X28@Gz8@,A0T&A333338@\(\9@8@Gz9@wA2T&AQx9@ffff9@q=
p9@9@`A8T&A9@{G9@{G9@~jt9@A:T&A
P6
24 24
255
p\$"hfsgsecVx#2Dy00usjOw!<Q=X5Lw/.us\$`Mw!<R>Y4Q/K#;w/.us-s:O@[6R0L&B"?!:w/.usw<O>Xy'-56>,2!9"?
;w/.ghx=O=Uhs116"?;w/.s>R@[f!#n11!8"?!:w/.u=RE^d !i//"?#;w/.uAVJbh-/f+*)A"?#;w.-
w!DYKdg)+vo^XJe))+A"?2l{--
AUIa??mqj}OD4y43&9mGP@?p|~wn~eUkhn\$"v41r}tc|cLyozscxaJyozraq]Fyozr`{zjVByozscptoP<youtfehcxI6
ynp|~tdY]XN@.ynp|~scMPME7(ynn~D=P8P8P8O6O5a?kebleeeeeeeNsy
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enthought/traits/ui/wx/images:

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

```
#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"

```

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P6

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PropKa: a program for protein pKa predictions

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quantity.png | OOo

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P6

CREATOR: The GIMP's PNM Filter Version 1.0

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P6

CREATOR: The GIMP's PNM Filter Version 1.0

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&cJ~uhtgtgsf=DaR.rTi|9El_4Odu7MXM+I r6>XN+H_qtaV/sssI rOAI rov}I rl}}I r/FVT r0B3IZ-

<XmI r.CSZp(5ZpI rKx!6H_y,:ZpI rYcmOdunnnzzz-9I>O\1@

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Files and original authors:

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:

Standard Traits UI Icons and Themes.

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- 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*!xnY~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;s^wNdwJ`tnfyIavE]rAZnGcStSt+jz,f.i0j0k0?U*C!OkStSt+jz#_}&a~(b(a~/>T*B'RmStSt+j gWvYyZyQn.<S*B*SnStSt+j:vStStHfVfxScuy(QkStWw[W`Dd{D`uC`uC_tB_tB^sA^sA^sEg`n	

P6

24 24

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```
k<(v$v"s*{Je&u#})(&#r){9&,01..)&#m{X@&1;AB=4-)%!lzS{"}.<IQSLAd+#lz%u*4DSacXX($|#us
{,6GWkq]S$ l|s>$+3CR^aVMt9&w&*.:jzqs$(+/{izr!%(+)-yjs"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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Files and original authors:

```
-----
actor.png | Nuvola
camera.png | GV
coordinate.png | Crystal
filter.png | Nuvola
lookuptable.png | OOo
mapper.png | Crystal
polydata.png | Nuvola
property.png | Eclipse
reader.png | Crystal
render.png | Crystal
renderwindowinteractor.png | Nuvola
renderwindow.png | Crystal
```


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Michel Sanner:

TSRI, Molecular Biology Department, TCP 26,
10550 North Torrey Pines Road, La Jolla, CA 92037
sanner@scripps.edu
tel (858) 784-7742
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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
pVpTSXWVZc\\pgg|okcQU^nq[SPVSPdLPU[ituk\UQMIEXhOQT[`g`UZWURPuZW[UTXQPWNMUJIRiTm
Please see the LICENSE file.
\$Id: LICENSE.txt 15 2009-10-30 18:26:52Z sarkiss \$
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GV (Gael Varoquaux)	Public Domain	N/A
Nuvola	LGPL	image_LICENSE_Nuvola.txt
OOo	LGPL	image_LICENSE_OOo.txt

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Files and original authors:

traitsui/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

1.323 godspeed_godlib 1.0

1.323.1 Available under license :

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Version 2.1, February 1999

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

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

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1.324 soappy 0.12.0

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=====
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=====

Current Maintainers:

Gregory R. Warnes <Gregory.R.Warnes@Pfizer.com>
Christopher Blunck <blunck2@gst.com>

Original Authors:

Cayce Ullman <c_ullman@yahoo.com>

Brian Matthews <blm@blmatthews.com>

Contributions by:

Brad Knotwell <b.knotwell@f5.com>

Mark Bucciarelli <mark@hubcapconsulting.com> (ported WSDL
client from ZSI)

Ivan R. Judson <judson@mcs.anl.gov> (Globus support)

Kirk Strauser <kirk@daycos.com>

Antonio Beamud Montero <antonio.beamud@linkend.com> (patches
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1.325 godspeed_ui_shared 1.0

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

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Any executables

containing that work also fall under Section 6,

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Yoyodyne, Inc., hereby disclaims all copyright interest in the

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

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

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1.326 webtapd 1.0

1.326.1 Available under license :

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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
```

1.327 pysnmp 2.0.8

1.327.1 Available under license :

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1.328 pil 1.1.6

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```
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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
```

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

```
/*
```

```
* 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
```

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

```
/*
* 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
*
* Copyright (c) Secret Labs AB 1997-2002. All rights reserved.
* Copyright (c) Fredrik Lundh 1995.
*
* 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/Filter.c
```

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```
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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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*
*/
```

* 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/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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/******

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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
*
* Copyright (c) Secret Labs AB 2002-2004. All rights reserved.
*
* 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/ModeFilter.c
No license file was found, but licenses were detected in source scan.
```

```
# Copyright (c) 1997-2005 by Secret Labs AB. All rights reserved.
```

Found in path(s):

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

```
/*
```

```
* 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
*
* Copyright (c) Secret Labs AB 2002. All rights reserved.
*
* See the README file for information on usage and redistribution.
*/
/* 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
No license file was found, but licenses were detected in source scan.
```

```
STARTFONT 2.1
```

```
COMMENT $XConsortium: courB08.bdf,v 1.5 94/04/10 21:46:11 gildea Exp $
```

```
COMMENT
```

```
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```

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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"
COPYRIGHT "Copyright (c) 1987 Adobe Systems, Inc., Portions Copyright 1988 Digital Equipment Corp."
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
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
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
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

C0
44
48
F4
2C
5E

04
ENDCHAR
STARTCHAR onehalf
ENCODING 189
SWIDTH 600 0
DWIDTH 6 0
BBX 7 7 -1 0
BITMAP
C0
44
48
F6
2A
44
0E
ENDCHAR
STARTCHAR threequarters
ENCODING 190
SWIDTH 600 0
DWIDTH 6 0
BBX 7 7 -1 0
BITMAP
E0
44
28
D4
2C
5E
04
ENDCHAR
STARTCHAR questiondown
ENCODING 191
SWIDTH 600 0
DWIDTH 6 0
BBX 5 7 0 -2
BITMAP
30
00
30
30
60
C8
70
ENDCHAR
STARTCHAR Agrave
ENCODING 192
SWIDTH 600 0
DWIDTH 6 0

BBX 7 9 -1 0
BITMAP
20
10
00
78
38
28
7C
6C
EE
ENDCHAR
STARTCHAR Aacute
ENCODING
193
SWIDTH 600 0
DWIDTH 6 0
BBX 7 9 -1 0
BITMAP
10
20
00
78
38
28
7C
6C
EE
ENDCHAR
STARTCHAR Acircumflex
ENCODING 194
SWIDTH 600 0
DWIDTH 6 0
BBX 7 9 -1 0
BITMAP
10
28
00
78
38
28
7C
6C
EE
ENDCHAR
STARTCHAR Atilde
ENCODING 195
SWIDTH 600 0

DWIDTH 6 0
BBX 7 9 -1 0
BITMAP
34
48
00
78
38
28
7C
6C
EE
ENDCHAR
STARTCHAR Adieresis
ENCODING 196
SWIDTH 600 0
DWIDTH 6 0
BBX 7 8 -1 0
BITMAP
28
00
78
38
28
7C
6C
EE
ENDCHAR
STARTCHAR Aring
ENCODING 197
SWIDTH 600 0
DWIDTH 6 0
BBX 7 9 -1 0
BITMAP
30
48
30
78
38
28
7C
6C
EE
ENDCHAR
STARTCHAR AE
ENCODING 198
SWIDTH 600 0
DWIDTH 6 0

BBX 7 6 -1 0
BITMAP
7E
3A
6C
78
DA
DE
ENDCHAR
STARTCHAR Ccedilla
ENCODING 199
SWIDTH 600 0
DWIDTH 6 0
BBX 5 8 0 -2
BITMAP
78
D8
C0
C0
D8
70
10
60
ENDCHAR
STARTCHAR Egrave
ENCODING 200
SWIDTH 600 0
DWIDTH 6 0
BBX 6 9 -1 0
BITMAP
20
10
00
FC
64
78
60
6C
FC
ENDCHAR
STARTCHAR Eacute
ENCODING 201
SWIDTH 600 0
DWIDTH 6 0
BBX 6 9 -1 0
BITMAP
10
20

00
FC
64
78
60
6C
FC
ENDCHAR
STARTCHAR Ecircumflex
ENCODING 202
SWIDTH
600 0
DWIDTH 6 0
BBX 6 9 -1 0
BITMAP
20
50
00
FC
64
78
60
6C
FC
ENDCHAR
STARTCHAR Edieresis
ENCODING 203
SWIDTH 600 0
DWIDTH 6 0
BBX 6 8 -1 0
BITMAP
50
00
FC
64
78
60
6C
FC
ENDCHAR
STARTCHAR Igrave
ENCODING 204
SWIDTH 600 0
DWIDTH 6 0
BBX 4 9 0 0
BITMAP
40
20

00
F0
60
60
60
60
F0
ENDCHAR
STARTCHAR Iacute
ENCODING 205
SWIDTH 600 0
DWIDTH 6 0
BBX 4 9 0 0
BITMAP
20
40
00
F0
60
60
60
60
F0
ENDCHAR
STARTCHAR Icircumflex
ENCODING 206
SWIDTH 600 0
DWIDTH 6 0
BBX 4 9 0 0
BITMAP
40
A0
00
F0
60
60
60
60
F0
ENDCHAR
STARTCHAR Idieresis
ENCODING 207
SWIDTH 600 0
DWIDTH 6 0
BBX 4 8 0 0
BITMAP
A0
00

F0
60
60
60
60
F0
ENDCHAR
STARTCHAR Eth
ENCODING 208
SWIDTH 600 0
DWIDTH 6 0
BBX 6 6 -1 0
BITMAP
F8
6C
F4
64
6C
F8
ENDCHAR
STARTCHAR Ntilde
ENCODING 209
SWIDTH 600 0
DWIDTH 6 0
BBX 7 9 -1 0
BITMAP
34
48
00
EE
64
74
7C
6C
EC
ENDCHAR
STARTCHAR Ograve
ENCODING 210
SWIDTH 600 0
DWIDTH 6 0
BBX 5 9 0 0
BITMAP
40
20
00
70
D8
D8

D8
D8
70
ENDCHAR
STARTCHAR Oacute
ENCODING 211
SWIDTH 600 0
DWIDTH 6 0
BBX 5 9 0 0
BITMAP
20
40
00
70
D8
D8
D8
D8
70
ENDCHAR
STARTCHAR
Ocircumflex
ENCODING 212
SWIDTH 600 0
DWIDTH 6 0
BBX 5 9 0 0
BITMAP
20
50
00
70
D8
D8
D8
D8
70
ENDCHAR
STARTCHAR Otilde
ENCODING 213
SWIDTH 600 0
DWIDTH 6 0
BBX 5 9 0 0
BITMAP
68
90
00
70
D8

D8
D8
D8
70
ENDCHAR
STARTCHAR Odieresis
ENCODING 214
SWIDTH 600 0
DWIDTH 6 0
BBX 5 8 0 0
BITMAP
50
00
70
D8
D8
D8
D8
70
ENDCHAR
STARTCHAR multiply
ENCODING 215
SWIDTH 600 0
DWIDTH 6 0
BBX 5 5 0 1
BITMAP
88
50
20
50
88
ENDCHAR
STARTCHAR Oslash
ENCODING 216
SWIDTH 600 0
DWIDTH 6 0
BBX 7 6 -1 0
BITMAP
3A
6C
7C
6C
6C
B8
ENDCHAR
STARTCHAR Ugrave
ENCODING 217
SWIDTH 600 0

DWIDTH 6 0
BBX 7 9 -1 0
BITMAP
20
10
00
EE
6C
6C
6C
6C
38
ENDCHAR
STARTCHAR Uacute
ENCODING 218
SWIDTH 600 0
DWIDTH 6 0
BBX 7 9 -1 0
BITMAP
08
10
00
EE
6C
6C
6C
6C
38
ENDCHAR
STARTCHAR Ucircumflex
ENCODING 219
SWIDTH 600 0
DWIDTH 6 0
BBX 7 9 -1 0
BITMAP
10
28
00
EE
6C
6C
6C
6C
38
ENDCHAR
STARTCHAR Udieresis
ENCODING 220
SWIDTH 600 0

DWIDTH 6 0
BBX 7 8 -1 0
BITMAP
28
00
EE
6C
6C
6C
6C
38
ENDCHAR
STARTCHAR
Yacute
ENCODING 221
SWIDTH 600 0
DWIDTH 6 0
BBX 7 9 -1 0
BITMAP
04
08
00
E6
66
3C
18
18
3C
ENDCHAR
STARTCHAR Thorn
ENCODING 222
SWIDTH 600 0
DWIDTH 6 0
BBX 6 6 -1 0
BITMAP
E0
78
6C
6C
78
E0
ENDCHAR
STARTCHAR germandbls
ENCODING 223
SWIDTH 600 0
DWIDTH 6 0
BBX 7 6 -1 0
BITMAP

38
68
7C
66
66
EC
ENDCHAR
STARTCHAR agrave
ENCODING 224
SWIDTH 600 0
DWIDTH 6 0
BBX 6 8 0 0
BITMAP
20
10
00
70
98
78
D8
FC
ENDCHAR
STARTCHAR aacute
ENCODING 225
SWIDTH 600 0
DWIDTH 6 0
BBX 6 8 0 0
BITMAP
10
20
00
70
98
78
D8
FC
ENDCHAR
STARTCHAR acircumflex
ENCODING 226
SWIDTH 600 0
DWIDTH 6 0
BBX 6 8 0 0
BITMAP
20
50
00
70
98

78
D8
FC
ENDCHAR
STARTCHAR atilde
ENCODING 227
SWIDTH 600 0
DWIDTH 6 0
BBX 6 8 0 0
BITMAP
68
90
00
70
98
78
D8
FC
ENDCHAR
STARTCHAR adieresis
ENCODING 228
SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 0 0
BITMAP
50
00
70
98
78
D8
FC
ENDCHAR
STARTCHAR aring
ENCODING 229
SWIDTH 600 0
DWIDTH 6 0
BBX 6 9 0 0
BITMAP
30
48
30
00
70
98
78
D8
FC

ENDCHAR
STARTCHAR ae
ENCODING 230
SWIDTH 600 0
DWIDTH
6 0
BBX 6 5 -1 0
BITMAP
6C
B4
7C
B0
DC
ENDCHAR
STARTCHAR ccedilla
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ENCODING 233
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DWIDTH 6 0
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ENDCHAR

STARTCHAR ocircumflex

ENCODING 244

SWIDTH 600 0

DWIDTH 6 0

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BITMAP

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ENDCHAR

STARTCHAR otilde

ENCODING 245

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ENCODING 246

SWIDTH 600 0

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STARTCHAR trademark
ENCODING 8482
SWIDTH 600 0
DWIDTH 6 0
BBX 7 4 -1 3
BITMAP
F6
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5A
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ENDCHAR
STARTCHAR perthousand
ENCODING 8240
SWIDTH 600 0
DWIDTH 6 0
BBX 6 7 0 0
BITMAP
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A8
D0
60
6C
B4
D8
ENDCHAR
STARTCHAR oe
ENCODING 339
SWIDTH 600 0
DWIDTH 6 0
BBX 6 5 0 0
BITMAP
6C
B4
BC
B0
6C
ENDCHAR
STARTCHAR
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ENCODING 64258
SWIDTH 600 0
DWIDTH 6 0
BBX 7 7 -1 0
BITMAP
3C
6C

FC
6C
6C
6C
FE
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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- + Support Options
 - Commercial support
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- + Build instructions (all platforms)
 - Additional notes for Mac OS X
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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

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.

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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

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Released to the public domain 16-Jan-2001,

Found in path(s):

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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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1.329 expat 2.4.8

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1.330 pcre 10.40

1.330.1 Available under license :

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End

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The basic library functions are written in C and are freestanding. Also included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: Philip.Hazel
Email domain: gmail.com

Retired from University of Cambridge Computing Service,
Cambridge,
England.

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PCRE2 JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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Written by: Zoltan Herczeg
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1.331 openssl 1.1.1o

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1.332 pycparser 2.20

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pycparser -- A C parser in Python

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Alexander Artemenko
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Lee Ball
Ben Bariteau
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Wouter Bolsterlee
Brett Cannon
Jason R. Coombs
Julien Danjou
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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.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system;

it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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Each

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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.

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 Library General Public License for more details.

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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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 combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,

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

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

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

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

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

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

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Version 3, 29 June 2007

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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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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<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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@c man end

@end ignore

@node Copying

@c man begin DESCRIPTION

@appendix GNU GENERAL PUBLIC LICENSE

@c The GNU General Public License.

@center Version 3, 29 June 2007

@c This file is intended to be included within another document,

@c hence no sectioning command or @node.

@display

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

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DRuntime: Runtime Library for the D Programming Language

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1.341 pysocks 1.7.1

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1.342 gotenv 1.2.0

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1.343 pep517 0.8.2

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1.344 colorama 0.4.3

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1.345 html5lib 1.0.1

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1.346 python-certifi 2020.12.05

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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 \$

1.349 mako 1.0.14

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1.350 pystemmer 2.0.0.1

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1.351 meson 0.56.0

1.351.1 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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1.352 distlib 0.2.9.post0

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

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

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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
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2.6.5	2.6.4	2010	PSF	yes
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3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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=====
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=====

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

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1.353 x-time-rate 0.0.0-20220922220347-f3bd1da661af

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* /protobuf-java-2-2-0-sources-1-jar/com/google/protobuf/RpcCallback.java  
* /protobuf-java-2-2-0-sources-1-jar/com/google/protobuf/AbstractMessage.java  
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* /protobuf-java-2-2-0-sources-1-jar/com/google/protobuf/CodedOutputStream.java  
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* /protobuf-java-2-2-0-sources-1-jar/com/google/protobuf/ExtensionRegistry.java  
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* /protobuf-java-2-2-0-sources-1-jar/com/google/protobuf/GeneratedMessage.java  
*  
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* /protobuf-java-2-2-0-sources-1-jar/com/google/protobuf/FieldSet.java  
* /protobuf-java-2-2-0-sources-1-jar/com/google/protobuf/BlockingService.java
```

```
* /protobuf-java-2-2-0-sources-1-jar/com/google/protobuf/Internal.java
* /protobuf-java-2-2-0-sources-1-jar/com/google/protobuf/ServiceException.java
* /protobuf-java-2-2-0-sources-1-jar/com/google/protobuf/InvalidProtocolBufferException.java
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1.356 klauspost-compress 1.15.11

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Alex Legg <alexlegg@google.com>
Damian Gryski <dgryski@gmail.com>
Eric Buth <eric@topos.com>
Jan Mercl <0xjnm@gmail.com>
Jonathan Swinney <jswinney@amazon.com>
Kai Backman <kaib@golang.org>
```

Klaus Post <klauspost@gmail.com>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
Rodolfo Carvalho <rhcavalho@gmail.com>
Russ Cox <rsc@golang.org>
Sebastien Binet <seb.binet@gmail.com>
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Names should be added to this file as:

Name <email address>

Raul Silvera <rsilvera@google.com>

Tipp Moseley <tipp@google.com>

Hyouon Kyu Cho <netforce@google.com>

Martin Spier <spiermar@gmail.com>

Taco de Wolff <tacodewolff@gmail.com>

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Marc Stevens
Cryptology Group
Centrum Wiskunde & Informatica
P.O. Box 94079, 1090 GB Amsterdam, Netherlands
marc@marc-stevens.nl

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1.362 elfutils 0.693

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1.366 libedit 3.1.20191231

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1.367 jettison 1.3

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1.368 x-sys 0.4.0

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1.369 x-crypto 0.5.0

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1.370 libidn 2.16.840

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1.374 json-java 20131018

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- * /json-20131018-sources-jar/org/json/XML.java
- * /json-20131018-sources-jar/org/json/CDL.java
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1.375 freebsd 13.0

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

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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

The following dependencies 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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- * org.ow2.asm:asm-commons
- * org.ow2.asm:asm

The following dependencies are ASL2 licensed.

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

The following dependencies 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
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- * org.eclipse.jetty.toolchain:jetty-schemas

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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,

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1.386 timezone_checker 1.0.0-000

1.386.1 Available under license :

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Found in path(s):

- * /timezone-checker-tar/b79c0f3c928a609ac1b0968cfb9573ce.py

1.387 savi_api 0.0.0

1.387.1 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

1.388 bsddb3 4.4.2

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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/bsddb/dbtables.py

* /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

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/PKG-INFO

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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/lock_id.html
* /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
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/program/appsignals.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_set_re_source.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/env/region.html
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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/throughput.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/lock/page.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/rpc/server.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/memp_trickle.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/term.html
* /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
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/rmw.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/java.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/utility/berkeley_db_svc.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/am_conf/bt_minkey.html
- * /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
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/read.html
- * /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/transapp/archival.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.3/bigfile.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/log/intro.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/lock/twoopl.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/log_compare.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/db.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/build_vxworks/notes.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_sync.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/simple_tut/open.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/simple_tut/intro.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/env_set_lk_detect.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/log_unregister.html

- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/build_unix/ultrix.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_associate.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_set_errpfx.html
- * /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
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.1/set_paniccall.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/tcl/error.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/tcl/faq.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/toc.html
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- /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/set_func_unmap.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/env_set_rec_init.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/log_put.html
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- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/env/create.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_set_paniccall.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/intro/where.html
- * /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/ref/build_unix/osf1.html
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- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/txn/config.html
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- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/db_set_bt_minkey.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

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- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/simple_tut/handles.html
- * /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/upgrade.3.0/func.html
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* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/nested.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/transapp/intro.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/xa/xa_config.html
* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/api_c/dbc_dup.html
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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>

{margo,mao}@sleepycat.com

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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.

<h2>1. Introduction</h2>

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.

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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 [\[9\]](#), TPC-D [\[10\]](#)) 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.

2.1 The User Perspective

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.

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.

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.

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

<p>

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.

<p>

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.

<p>

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.

<p>

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 descendants.

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 choose 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.

4.6 Adaptive concurrency control

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.

4.7 Adaptive synchronization

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.

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."

[\[8\]](#).

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 [\[2\]](#) [\[3\]](#).

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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<p>

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</body>

</html>

Found in path(s):

* /bsddb3-4-4-2-zip/bsddb3-4.4.2/docs/ref/refs/embedded.html

1.389 servlet-api 8.5.32

1.389.1 Available under license :

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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- 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_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
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1.390 libsm 1.1.1

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1.392 gobject-introspection 1.66.1-1

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* Authors:

* Inki Dae <inki.dae@samsung.com>

*/

Found in path(s):

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/exynos/exynos_drmif.h

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/exynos/exynos_drm.c

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/radeon/radeon_cs_space.c

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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/libkms.h
- * /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/format.h

* /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

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/util/format.c

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/intel/intel_bufmgr_gem.c
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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 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$drm_cv_atomic_primitives" = xIntel; then
  AC_DEFINE(HAVE_LIBDRM_ATOMICS_PRIMITIVES, 1,
  [Enable if your compiler supports the Intel __sync_* atomic primitives])
fi
if test "x$drm_cv_atomic_primitives" = "xlibatomic-ops"; then
  AC_DEFINE(HAVE_LIB_ATOMICS_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(PCIAACCESS, [pciaccess >= 0.10])
fi
AC_SUBST(PCIAACCESS_CFLAGS)
AC_SUBST(PCIAACCESS_LIBS)

if test "x$UDEDEV" = 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(VLGRIND, [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"))])

```

```
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  $VMWGFYX"
echo " Radeon API  $RADEON"
echo " AMDGPU API
  $AMDGPU"
echo " Nouveau API $NOUVEAU"
echo " OMAP API    $OMAP"
echo " EXYNOS API  $EXYNOS"
echo " Freedreno API $FREEDRENO (kgs1: $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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* /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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* /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

* [Knuth81] Donald E. Knuth. The Art of Computer Programming. Volume 2:
* Seminumerical Algorithms. Reading, Massachusetts: Addison-Wesley, 1981.

* [LE88] Pierre L'Ecuyer. "Efficient and Portable Combined Random Number
* Generators". CACM 31(6), June 1988, pp. 742-774.

* [LE90] Pierre L'Ecuyer. "Random Numbers for Simulation". CACM 33(10),
* October 1990, pp. 85-97.

- *
 - * [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 Generator for 32-Bit 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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 */
```

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```
*/libdrm-2-4-81-tar-bz2/libdrm-2.4.81/etnaviv/etnaviv_drm.h
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* Authors:
* Gareth Hughes <gareth@valinux.com>
* Frank C. Earl <fearl@airmail.net>
* Leif Delgass <ldelgass@retinalburn.net>
*/

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* Inki Dae <inki.dae@samsung.com>

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/exynos/exynos_fimg2d.h

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/exynos/exynos_fimg2d_test.c

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/exynos/exynos_fimg2d.c

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* Eric Anholt <eric@anholt.net>
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- * /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/amdgpu/amdgpu_test.c
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- * /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/amdgpu/basic_tests.c
- * /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/amdgpu/amdgpu_test.h
- * /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/amdgpu/cs_tests.c
- * /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/amdgpu/bo_tests.c

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tegra/private.h
* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tegra/tegra.h
* /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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*

* 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.

*

*/

Found in path(s):

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/drmsl.c

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/libdrm_macros.h
* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/tegra/openclose.c
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- common.xml (20583 bytes, from 2016-09-06 14:14:12)
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- copyright.xml (1597 bytes, from 2016-09-06 14:44:16)
- state_2d.xml (51552 bytes, from 2016-09-06 14:44:16)
- state_3d.xml (54603 bytes, from 2016-09-06 14:44:16)
- state_vg.xml (5975 bytes, from 2016-09-06 14:44:16)

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/* exynos_drm.h

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* Eric Anholt <eric@anholt.net>

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* Authors:

* Ben Widawsky <ben@bwidawsk.net>

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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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*   Jeff Hartmann <jhartmann@valinux.com>
*   Keith Whitwell <keith@tungstengraphics.com>
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*   Gareth Hughes <gareth@valinux.com>
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Found in path(s):

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/include/drm/mga_drm.h

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/* radeon_drm.h -- Public header for the radeon driver -*- linux-c -*-
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* Authors:

* Kevin E. Martin <martin@valinux.com>
* Gareth Hughes <gareth@valinux.com>
* Keith Whitwell <keith@tungstengraphics.com>

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* Authors:

* Jerome Glisse <j.glisse@gmail.com>

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/radeon/rbo.c

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/radeon/radeon_ttm.c

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/radeon/rbo.h

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* Authors:

* Christian Gmeiner <christian.gmeiner@gmail.com>

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/etnaviv/etnaviv_2d_test.c

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/etnaviv/etnaviv_pipe.c

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/amdgpu/amdgpu_internal.h
* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/amdgpu/amdgpu_bo.c

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/radeon/radeon_bo_gem.c
* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/radeon/radeon_bo_gem.h
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* Authors:

* Paulo Zandoni <paulo.r.zandoni@intel.com>

*

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* Christian Gmeiner <christian.gmeiner@gmail.com>
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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/man/drm.xml

* /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

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/man/drm-kms.xml

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/include/drm/r128_drm.h

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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

*

* [Hanson97] David R. Hanson. C Interfaces and Implementations:
* Techniques for Creating Reusable Software. Reading, Massachusetts:
* Addison-Wesley, 1997.

*

* [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.

*

*/

Found in path(s):

* /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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*
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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_priv.h

* /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

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/kgsl/kgsl_device.c
* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/kgsl/kgsl_bo.c
* /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/bufctx.c
* /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:

* Christian Gmeiner <christian.gmeiner@gmail.com>

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/etnaviv/etnaviv_gpu.c

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/etnaviv/etnaviv_cmd_stream_test.c

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/kms/kms-steal-crtc.c
* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/kms/kms-universal-planes.c
* /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
* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/tests/kms/libkms-test.h

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/radeon/bof.h

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/radeon/bof.c

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/freedreno_ringbuffer.c

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/freedreno_bo.c

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/freedreno_pipe.c

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/freedreno_drmif.h

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/freedreno_priv.h

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/freedreno_device.c

* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/freedreno/freedreno_ringbuffer.h

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/* savage_drm.h -- Public header for the savage driver

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* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/amdgpu/amdgpu.h
* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/amdgpu/amdgpu_cs.c
* /libdrm-2-4-81-tar-bz2/libdrm-2.4.81/amdgpu/amdgpu_device.c
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Mesa 3-D graphics library

Version: 7.0

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1.399 wheel 0.37.1

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1.400 log4cplus 2.1.0

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1.401 tiny-xml 2.8.2

1.401.1 Available under license :

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/*

www.sourceforge.net/projects/tinyxml

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/** @mainpage

TinyXML

TinyXML is a simple, small, C++ XML parser that can be easily integrated into other programs.

What it does.

In brief, TinyXML parses an XML document, and builds from that a Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create your own document markups. Where HTML does a very good job of marking documents for browsers, XML allows you to define any kind of document markup, for example a document that describes a "to do" list for an organizer application. XML is a very structured and convenient format. All those random file formats created to store application data can all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to read spec is at <http://www.w3.org/TR/2004/REC-xml-20040204/>.

An intro to XML

(that I really like) can be found at

`http://skew.org/xml/tutorial`.

There are different ways to access and interact with XML data.

TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed into a C++ objects that can be browsed and manipulated, and then written to disk or another output stream. You can also construct an XML document from scratch with C++ objects and write this to disk or another output stream.

TinyXML is designed to be easy and fast to learn. It is two headers and four cpp files. Simply add these to your project and off you go. There is an example file - `xmltest.cpp` - to get you started.

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TinyXML attempts to be a flexible parser, but with truly correct and compliant XML output. TinyXML should compile on any reasonably C++ compliant system. It does not rely on exceptions or RTTI. It can be compiled with or without STL support. TinyXML fully supports the UTF-8 encoding, and the first 64k character entities.

`<h2> What it doesn't do. </h2>`

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs (eXtensible Stylesheet Language.) There are other parsers out there (check out `www.sourceforge.org`, search for XML) that are much more fully featured. But they are also much bigger, take longer to set up in your project, have a higher learning curve, and often have a more restrictive license. If you are working with browsers or have more complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

```
@verbatim
<!DOCTYPE Archiv [
  <!ELEMENT Comment (#PCDATA)>
]>
@endverbatim
```

because TinyXML sees this as a !DOCTYPE node with an illegally embedded !ELEMENT node. This may be addressed in the future.

`<h2> Tutorials. </h2>`

For

the impatient, here is a tutorial to get you going. A great way to get started, but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find bugs, please file a bug report on the sourceforge web site (www.sourceforge.net/projects/tinyxml). We'll get them straightened out as soon as possible.

There are some areas of improvement; please check sourceforge if you are interested in working on TinyXML.

<h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

 TinyXPath (<http://tinypath.sourceforge.net>). TinyXPath is a small footprint XPath syntax decoder, written in C++.

 TinyXML++ (<http://code.google.com/p/ticpp/>). TinyXML++ is a completely new interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling.

<h2>

Features </h2>

<h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML uses the `std::string` class, and fully supports `std::istream`, `std::ostream`, `operator<<`, and `operator>>`. Many API methods have both `'const char*'` and `'const std::string&'` forms.

When STL support is compiled out, no STL files are included whatsoever. All the string classes are implemented by TinyXML itself. API methods all use the `'const char*'` form for input.

Use the compile time `#define`:

`TIXML_USE_STL`

to compile one version or the other. This can be passed by the compiler, or set as the first line of `"tinyxml.h"`.

Note: If compiling the test code in Linux, setting the environment variable TINYXML_USE_STL=YES/NO will control STL compilation. In the Windows project file, STL and non STL targets are provided. In your project, It's probably easiest to add the line "#define TIXML_USE_STL" as the first line of tinyxml.h.

<h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing to manipulate XML files in any language. TinyXML also supports "legacy mode" - the encoding used before UTF-8 support and probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However, by setting the value of TIXML_DEFAULT_ENCODING in the header file, TinyXML can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

 If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf) begin the file or data stream, TinyXML will read it as UTF-8.

 If the declaration tag is read, and it has an encoding="UTF-8", then TinyXML will read it as UTF-8.

 If the declaration tag is read, and it has no encoding specified, then TinyXML will read it as UTF-8.

 If the declaration tag is read, and it has an encoding="something else", then TinyXML will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's

not clear what that mode does exactly, but old content should keep working.

 Until one of the above criteria is met, TinyXML runs in Legacy Mode.

What happens if the encoding is incorrectly set or detected? TinyXML will try to read and pass through text seen as improperly encoded. You may get some strange results or mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile(TIXML_ENCODING_LEGACY) or LoadFile(filename, TIXML_ENCODING_LEGACY). You may force it to use legacy mode all the time by setting TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY. Likewise, you may force it to TIXML_ENCODING_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You don't need to be aware of UTF-8 or change your code in any way. You can think of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode!

TinyXML

does not use or directly support wchar, TCHAR, or Microsoft's _UNICODE at this time. It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding. Text encoded as SHIFT-JIS can not be read by TinyXML. A good text editor can import SHIFT-JIS and then save as UTF-8.

The `Skew.org link` does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file "utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that Print() or printf() cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

<h3> Entities </h3>

TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:

```
@verbatim
&amp; &
&lt; <
&gt; >
&quot; "
&apos; '
@endverbatim
```

These are recognized when the XML document is read, and translated to there UTF-8 equivalents. For instance, text with the XML of:

```
@verbatim
Far &amp; Away
@endverbatim
```

will have the Value()

of "Far & Away" when queried from the TiXmlText object, and will be written back to the XML stream/file as an ampersand. Older versions of TinyXML "preserved" character entities, but the newer versions will translate them into characters.

Additionally, any character can be specified by its Unicode code point:

The syntax " " or " " are both to the non-breaking space character.

<h3> Printing </h3>

TinyXML can print output in several different ways that all have strengths and limitations.

- Print(FILE*). Output to a std-C stream, which includes all C files as well as stdout.
 - "Pretty prints", but you don't have control over printing options.
 - The output is streamed directly to the FILE object, so there is no memory overhead in the TinyXML code.
 - used by Print() and SaveFile()
- operator<<. Output to a c++ stream.
 - Integrates with standard C++ iostreams.
 - Outputs in "network printing" mode without line breaks. Good for network transmission and moving XML between C++ objects, but hard for a human to read.
- TiXmlPrinter. Output to a std::string or memory buffer.
 - API is less concise
 - Future printing options will be put here.
 - Printing may change slightly in future versions as it is refined and expanded.

<h3> Streams </h3>

With TIXML_USE_STL on TinyXML supports C++ streams (operator <<,>>) streams as well as C (FILE*) streams. There are some differences that you may need to be aware of.

C style output:

- based on FILE*
- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements and 2 declarations, will still print.

C style input:

- based on FILE*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:

- based on `std::ostream`
- operator<<

Generates

condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the `ostream` class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:

- based on `std::istream`
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that `operator>>` is somewhat slower than `Parse`, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>

The world simply does not agree on whether white space should be kept, or condensed.

For example, pretend the '_' is a space, and look at "Hello___world". HTML, and at least some XML parsers, will interpret this as "Hello_world". They condense white space. Some XML parsers do not, and will leave it as "Hello___world". (Remember to keep pretending the _ is a space.) Others suggest that ___Hello___world__ should become Hello___world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the first 2 approaches. Call `TiXmlBase::SetCondenseWhiteSpace(bool)` to set the desired behavior. The default is to condense white space.

If you change the default, you should call `TiXmlBase::SetCondenseWhiteSpace(bool)` before making any calls to `Parse` XML data, and I don't recommend changing it after it has been set.

<h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check for null returns from method calls. An error safe implementation can generate a lot of code like:

```

@verbatim
TiXmlElement* root = document.FirstChildElement(
    "Document" );
if ( root )
{
    TiXmlElement* element = root->FirstChildElement( "Element" );
    if ( element )
    {
        TiXmlElement* child = element->FirstChildElement( "Child" );
        if ( child )
        {
            TiXmlElement* child2 = child->NextSiblingElement( "Child" );
            if ( child2 )
            {
                // Finally do something useful.
            }
        }
    }
}
@endverbatim

```

Handles have been introduced to clean this up. Using the TiXmlHandle class, the previous code reduces to:

```

@verbatim
TiXmlHandle docHandle( &document );
TiXmlElement* child2 = docHandle.FirstChild( "Document" ).FirstChild( "Element" ).Child( "Child", 1
).ToElement();
if ( child2 )
{
    // do something useful
}
@endverbatim

```

Which is much easier to deal with. See TiXmlHandle for more information.

<h3> Row and Column tracking </h3>

Being able to track nodes and attributes back to their origin location in source files can be very important for some applications. Additionally, knowing where parsing errors occurred in the original source can be very time saving.

TinyXML can track the row and column origin of all nodes and attributes in a text file. The TiXmlBase::Row() and TiXmlBase::Column() methods return the origin of the node in the source text. The correct tabs can be configured in TiXmlDocument::SetTabSize().

<h2> Using and Installing </h2>

To Compile and Run xmltest:

A Linux Makefile and a Windows Visual C++ .dsw file is provided. Simply compile and run. It will write the file demotest.xml to your disk and generate output on the screen. It also tests walking the DOM by printing out the number of nodes found using different techniques.

The Linux makefile is very generic and runs on many systems - it is currently tested on mingw and MacOSX. You do not need to run 'make depend'. The dependencies have been hard coded.

Windows project file for VC6

tinyxml: tinyxml library, non-STL

tinyxmlSTL: tinyxml library, STL

tinyXmlTest: test app, non-STL

tinyXmlTestSTL: test app,

STL

Makefile

At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML_USE_STL. Details (such that they are) are in the makefile.

In the tinyxml directory, type "make clean" then "make". The executable file 'xmltest' will be created.

To Use in an Application:

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

How TinyXML works.

An example is probably the best way to go. Take:

@verbatim

<?xml version="1.0" standalone=no>

<!-- Our to do list data -->

<ToDo>

<Item priority="1"> Go to the Toy store!</Item>

```
<Item priority="2"> Do bills</Item>
</ToDo>
@endverbatim
```

Its not much of a To Do list, but it will do. To read this file (say "demo.xml") you would create a document, and parse it in:

```
@verbatim
TiXmlDocument
doc( "demo.xml" );
doc.LoadFile();
@endverbatim
```

And its ready to go. Now lets look at some lines and how they relate to the DOM.

```
@verbatim
<?xml version="1.0" standalone=no>
@endverbatim
```

The first line is a declaration, and gets turned into the TiXmlDeclaration class. It will be the first child of the document node.

This is the only directive/special tag parsed by TinyXML. Generally directive tags are stored in TiXmlUnknown so the commands wont be lost when it is saved back to disk.

```
@verbatim
<!-- Our to do list data -->
@endverbatim
```

A comment. Will become a TiXmlComment object.

```
@verbatim
<ToDo>
@endverbatim
```

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.

```
@verbatim
<Item priority="1">
@endverbatim
```

Creates another TiXmlElement which is a child of the "ToDo" element. This element has 1 attribute, with the name "priority" and the value "1".

@verbatim
Go to the
@endverbatim

A TiXmlText.
This is a leaf node and cannot contain other nodes.
It is a child of the "Item" TiXmlElement.

@verbatim
<bold>
@endverbatim

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:

@verbatim
TiXmlDocument "demo.xml"
TiXmlDeclaration "version='1.0' "standalone=no"
TiXmlComment " Our to do list data"
TiXmlElement "ToDo"
TiXmlElement "Item" Attributes: priority = 1
TiXmlText "Go to the "
TiXmlElement "bold"
TiXmlText "Toy store!"
TiXmlElement "Item" Attributes: priority=2
TiXmlText "Do bills"
@endverbatim

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox' configuration file.

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<h2> References </h2>

The World Wide Web Consortium is the definitive standard body for XML, and their web pages contain huge amounts of information.

The definitive spec: http://www.w3.org/TR/2004/REC-xml-20040204/

I also recommend "XML Pocket Reference" by Robert Eckstein and published by OReilly...the book that got the whole thing started.

<h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and encouragement. It all helps, and makes this project fun. A special thanks to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still in the documentation.) Lee reviews changes and releases new versions, with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you use TinyXML. Hopefully you will enjoy it and find it useful. Please post questions, comments, file bugs, or contact us at:

www.sourceforge.net/projects/tinyxml

Lee Thomason, Yves Berquin, Andrew Ellerton
*/

Found in path(s):
* /tinyxml-master-zip/TinyXML-master/readme.txt

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

```
/*  
www.sourceforge.net/projects/tinyxml  
Original code by Lee Thomason (www.grinninglizard.com)
```

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```
*/
```

Found in path(s):

```
*
```

```
/tinyxml-master-zip/TinyXML-master/tinyxmlparser.cpp
```

1.402 logrus 1.9.0

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1.403 unbound 1.13.1

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1.404 python 2.7.18

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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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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

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

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>

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

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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

Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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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1.407 perl 5.32.1

1.407.1 Available under license :

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

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@end macro

@macro copyrightend{ }

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@comment node-name, next, previous, up

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AES in libcrypto

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@version 3.0 (December 2000)

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

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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@asis

@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 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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kdc/announce.c

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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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Windows support

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| 2 | 7680 | 16383 | 8704 | 4.3M | | 8f8378c0-02 |
| 5 | 7936 | 12799 | 4864 | 2.4M | | |
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it
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```

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```
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```

```
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```

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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<GimCN7g1u|E
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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```

1.414 openjdk 1.8.0u131

1.414.1 Available under license :

```
## zlib v1.2.11
```

```
### zlib License
```

```
<pre>
```

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jloup@gzip.org madler@alumni.caltech.edu

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

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<pre>

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```
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```
<pre>
```

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- On Windows systems: delete \$(JAVA_HOME)\bin\sunec.dll

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</pre>
## xwd v1.0.7

### xwd utility
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Bogdan Pilocca <boo@google.com>
Chandler Carruth <chandlerc@google.com>
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David Anderson <danderson@google.com>
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Joe Walnes <joe@truemesh.com>
Jon Wray <jwray@google.com>
Keir Mierle <mierle@gmail.com>
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Lev Makhlis
Manuel Klimek <klimek@google.com>
Mario Tanev <radix@google.com>
Mark Paskin
Markus Heule <markus.heule@gmail.com>
Matthew Simmons <simmonmt@acm.org>
Mike Bland <mbland@google.com>
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Nermin Ozkiranartli <nermin@google.com>
Owen
Carlsen <ocarlsen@google.com>
Paneendra Ba <paneendra@google.com>
Paul Menage <menage@google.com>
Piotr Kaminski <piotrk@google.com>
Russ Rufer <russ@pentad.com>
Sverre Sundsdal <sundsda@gmail.com>
Takeshi Yoshino <tyoshino@google.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
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Ajay Joshi <jaj@google.com>
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Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
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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.

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

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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 |

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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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1.423 python 3.7.9

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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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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 |
| 2.1.2 | 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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```
# Name <email address>
```

```
Raul Silvera <rsilvera@google.com>
```

```
Tipp Moseley <tipp@google.com>
```

```
Hyoun Kyu Cho <netforce@google.com>
```

```
Martin Spier <spiermar@gmail.com>
```

```
Taco de Wolff <tacodewolff@gmail.com>
```

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1.431 pcre 8.44

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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 |

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|-------|-------|------|-----|-----|
| 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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| 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 |

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|-------|-------|------|-----|-----|
| 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 |
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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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=====

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=====

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- * Arfrever Frehtes Taifersar Arahesis
- * Christophe Combelles
- * Daniel Stutzbach
- * Daniel Holth
- * Hanno Schlichting
- * Jannis Leidel
- * Jason R. Coombs
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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<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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1.433 libevent 2.1.12

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1.434 python-setuptools 44.0.0

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1.435 python-pip 19.2.3

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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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1.436 libtasn 4.16.0

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

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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

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

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|---------|--------------|------|-------|---------------------|
| 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 |
| 3.1.4 | 3.1.3 | 2011 | PSF | yes |
| 3.2 | 3.1 | 2011 | PSF | yes |
| 3.2.1 | 3.2 | 2011 | PSF | yes |
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A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

| Release | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | 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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1.438 pcre 8.35

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1.439 python-certifi 2021.10.08

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1.440 libevent 2.1.4-alpha

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1.441 cryptography 2.9.2

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1.442 python-certifi 2019.06.16

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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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1.443 cobra 1.7.0

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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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```

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```
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```

```
@(#) $RCSfile: certdata.txt,v $
```

```
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
```

1.445 ini 1.62.0

1.445.1 Available under license :

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Version 2.0, January 2004

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1.446 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 \$

1.447 simplejson 2.0.9

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1.448 ruby 2.7.2p137

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1.449 asciidoctor 2.0.10

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1.450 python 2.4.3R

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A. HISTORY OF THE SOFTWARE

=====

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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 | Year | Owner | GPL- |
|---------|---------|------|-------|------|
|---------|---------|------|-------|------|

| | from | | | compatible? (1) |
|---------------|-----------|-----------|------------|-----------------|
| 0.9.0 thru | 1.2 | 1991-1995 | CWI | yes |
| 1.3 thru | 1.5.2 | 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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1.451 html5lib 0.90

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Contributors:

James Graham - jg307@cam.ac.uk

Anne van Kesteren - annevankesteren@gmail.com

Lachlan Hunt - lachlan.hunt@lachy.id.au

Matt McDonald - kanashii@kanashii.ca

Sam Ruby - rubys@intertwingly.net

Ian Hickson (Google) - ian@hixie.ch

Thomas Broyer - t.broyer@ltgt.net

Jacques Distler - distler@golem.ph.utexas.edu

Henri Sivonen - hsivonen@iki.fi

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1.452 sphinx-rtd-theme 0.4.3

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1.453 sudo 1.9.5p2

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if

you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtislav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup

Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul

Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Orbn, Lszl
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal

Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe

Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
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Rasmussen, Sebastian
Regueiro, Leandro
Sarar, zgr
Sendn, Abel
erbnescu, Daniel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer
Yang, Boyuan

The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent

Sandwich logo: Stillman, Mark

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1.458 pillow 1.1.6

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GIMP Palette

Name: Test

Columns: 0

#

GIMP Palette

Name: custompalette

Columns: 4

#

0 0 0 Index 3

65 38 30 Index 4

103 62 49 Index 6

79 73 72 Index 7

114 101 97 Index 8

208 127 100 Index 9

151 144 142 Index 10

221 207 199 Index 11

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1.460 afero 1.9.3

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1.461 zlib 1.2.11

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1.462 zlib 1.2.3

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1.463 zlib 1.2.8

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1.464 zlib 1.2.5

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010

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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).
*/

1.465 zlib 1.1.3

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1.466 zlib 1.2.1

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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). 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 before asking for help.

Mark Nelson [<markn@ieee.org>](mailto: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>](mailto: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

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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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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* /zlib-1-2-1-tar-gz/zlib-1.2.1/README

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/* infbac9.h -- header for using inflateBack9 functions

* Copyright (C) 2003 Mark Adler

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*/

Found in path(s):

* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/infbac9/infbac9.h

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Found in path(s):

* /zlib-1-2-1-tar-gz/zlib-1.2.1/inflate.h

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/* unzip.h -- IO for uncompress .zip files using zlib

Version 1.00, September 10th, 2003

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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

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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
```

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

; This is free software; you can redistribute it and/or modify it
; under the terms of the GNU General Public License.

Found in path(s):

```
* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/masm686/match.asm
```

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

```
/* 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.
* 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/zlibpas.pas
```

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

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

Copyright (C) 1995-2003 Jean-loup Gailly and Mark Adler

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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).

*/

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:

Copyright (C) 1995-2003 Jean-loup Gailly and Mark Adler.

Copyright (C)

1998 by Bob Dellaca.

Copyright (C) 2003 by Cosmin Truta.

The example program is:

Copyright (C) 1995-2003 by Jean-loup Gailly.

Copyright (C) 1998,1999,2000 by Jacques Nomssi Nzali.

Copyright (C) 2003 by Cosmin Truta.

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3.

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Found in path(s):

* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/pascal/readme.txt

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

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* under the terms of the GNU General Public License.

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 --
-- As a special exception, if other files instantiate generics from this --
-- 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/infrees.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
* 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.c

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

/* zutil.c -- target dependent utility functions for 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.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 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

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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*/

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

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). 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. 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.

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

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 `snprintf()` or `vsnprintf()` 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-pendantic. 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.

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 The origin of this software must not be misrepresented ; you must not

 Altered source versions must be plainly marked as such, and must not be

 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

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>

Found in path(s):

* /zlib-1-2-1-tar-gz/zlib-1.2.1/win32/DLL_FAQ.txt

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

/* blast.c

* Copyright (C) 2003 Mark Adler

* For conditions of distribution and use, see copyright notice in blast.h

* 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).

*/

Found in path(s):

* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/blast/blast.c

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

/* inftrees.h -- header to use inftrees.c

* 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.h

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

/*

Copyright (c) 1990-2000 Info-ZIP. All rights reserved.

See the accompanying file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.

If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: <ftp://ftp.info-zip.org/pub/infozip/license.html>

*/

Found in path(s):

* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/minizip/unzip.c

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

/* gzappend -- command to append to a gzip file

Copyright (C) 2003 Mark Adler, all rights reserved

version 1.1, 4 Nov 2003

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3. This notice may not be removed or altered from any source distribution.

Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/gzappend/gzappend.c

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

/* inftree9.h -- header to use inftree9.c

* 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/infbck9/inftee9.h

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

/* gzio.c -- IO on .gz files

* Copyright (C) 1995-2003 Jean-loup Gailly.

* For conditions of distribution and use, see copyright notice in zlib.h

*

* Compile this file with -DNO_GZCOMPRESS to avoid the compression code.

*/

Found in path(s):

* /zlib-1-2-1-tar-gz/zlib-1.2.1/gzio.c

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

;;; This is free software; you can redistribute it and/or modify it
;;; under the terms of the GNU General Public License.

Found in path(s):

* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/masmx86/gvmat32.asm

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

/* zconf.h -- configuration 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/zconf.h

* /zlib-1-2-1-tar-gz/zlib-1.2.1/zconf.in.h

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

/* inffast.h -- header to use inffast.c

* 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.h

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/msdos/Makefile.emx

* /zlib-1-2-1-tar-gz/zlib-1.2.1/win32/Makefile.emx

* /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

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

/* blast.h -- interface for blast.c

Copyright (C) 2003 Mark Adler

version 1.1, 16 Feb 2003

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3. This notice may not be removed or altered from any source distribution.

Mark Adler madler@alumni.caltech.edu

*/

Found in path(s):

* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/blast/blast.h

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* /zlib-1-2-1-tar-gz/zlib-1.2.1/contrib/iostream2/zstream.h

1.467 zlib 1.2.12

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1.468 dash 0.5.9.1

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1.469 gorilla 1.5.0

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1.470 activation 1.1.1

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@(#)package.html 1.2 07/05/14

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* /activation-1-1-1-sources-10-jar/javax/activation/package.html

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1.472 pflag 1.0.5

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1.474 gopkg.in-yaml 3.0.1

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1.475 pyparsing 2.4.7

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1.476 six 1.16.0

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immerrr again
Alexander Artemenko
Aymeric Augustin
Lee Ball
Ben Bariteau
Ned Batchelder
Wouter Bolsterlee
Brett Cannon
Jason R. Coombs
Julien Danjou
Ben Darnell
Ben Davis
Jon Dufresne
Tim Graham
Thomas Grainger
Max Grender-Jones
Pierre Grimaud
Joshua Harlow
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Hugo van Kemenade
Anselm Kruis
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Alexander Lukanin

James Mills
Jordan Moldow
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1.477 pycparser 2.21

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pycparser -- A C parser in Python

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1.478 aop-alliance 2.5.0

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1.482 cast 1.3.1

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* [/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

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Bundle-SymbolicName: com.sun.istack.common-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

1.484 servlet-api 3.1.0

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* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/DataBindingException.java
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 * /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
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 * /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/DatatypeConverter.java
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 * /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
 * /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/helpers/Messages.java

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 * /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlAnyElement.java
 * /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/W3CDomHandler.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/attachment/AttachmentUnmarshaller.java
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* /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
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/jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlSchemaTypes.java
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* /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/util/Messages.properties
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/Messages.properties
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/helpers/Messages.properties
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- * /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlID.java
- * /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
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- * /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlElement.java
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- * /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlIDREF.java
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- * /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlAttribute.java
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- * /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
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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
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/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
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlEnumValue.java
* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/annotation/XmlRegistry.java
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- * /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/package.html
- * /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/helpers/package.html

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* /jaxb-api-2-2-11-sources-7-jar/javax/xml/bind/JAXBPermission.java

1.486 aws-sdk-go 1.44.126

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    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteLicenseConfigurationRequest"},
  "output":{"shape":"DeleteLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"DeleteLicenseManagerReportGenerator":{
  "name":"DeleteLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"DeleteLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"DeleteToken":{
  "name":"DeleteToken",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"DeleteTokenRequest"},
  "output":{"shape":"DeleteTokenResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"RedirectException"}
  ]
}

```

```

]
},
"ExtendLicenseConsumption":{
  "name":"ExtendLicenseConsumption",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ExtendLicenseConsumptionRequest"},
  "output":{"shape":"ExtendLicenseConsumptionResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"GetAccessToken":{
  "name":"GetAccessToken",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetAccessTokenRequest"},
  "output":{"shape":"GetAccessTokenResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"GetGrant":{
  "name":"GetGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetGrantRequest"},
  "output":{"shape":"GetGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},

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    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"GetLicense":{
  "name":"GetLicense",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseRequest"},
  "output":{"shape":"GetLicenseResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"GetLicenseConfiguration":{
  "name":"GetLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConfigurationRequest"},
  "output":{"shape":"GetLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"GetLicenseConversionTask":{
  "name":"GetLicenseConversionTask",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseConversionTaskRequest"},
  "output":{"shape":"GetLicenseConversionTaskResponse"},

```

```

"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
"GetLicenseManagerReportGenerator":{
  "name":"GetLicenseManagerReportGenerator",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseManagerReportGeneratorRequest"},
  "output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"AccessDeniedException"},
    {"shape":"ResourceNotFoundException"}
  ]
},
"GetLicenseUsage":{
  "name":"GetLicenseUsage",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"GetLicenseUsageRequest"},
  "output":{"shape":"GetLicenseUsageResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"GetServiceSettings":{
  "name":"GetServiceSettings",
  "http":{
    "method":"POST",

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    "requestUri":"/"
  },
  "input":{"shape":"GetServiceSettingsRequest"},
  "output":{"shape":"GetServiceSettingsResponse"},
  "errors":[
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListAssociationsForLicenseConfiguration":{
  "name":"ListAssociationsForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
  "output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListDistributedGrants":{
  "name":"ListDistributedGrants",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListDistributedGrantsRequest"},
  "output":{"shape":"ListDistributedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListFailuresForLicenseConfigurationOperations":{
  "name":"ListFailuresForLicenseConfigurationOperations",

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"http":{
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
"output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
"errors":[
  {"shape":"InvalidParameterValueException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"}
]
},
>ListLicenseConfigurations:{
  "name":"ListLicenseConfigurations",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConfigurationsRequest"},
  "output":{"shape":"ListLicenseConfigurationsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
>ListLicenseConversionTasks:{
  "name":"ListLicenseConversionTasks",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseConversionTasksRequest"},
  "output":{"shape":"ListLicenseConversionTasksResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
>ListLicenseManagerReportGenerators:{

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"name":"ListLicenseManagerReportGenerators",
"http":{"
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
"output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"ResourceLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"AccessDeniedException"},
  {"shape":"ResourceNotFoundException"}
]
},
"ListLicenseSpecificationsForResource":{
  "name":"ListLicenseSpecificationsForResource",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListLicenseVersions":{
  "name":"ListLicenseVersions",
  "http":{"
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicenseVersionsRequest"},
  "output":{"shape":"ListLicenseVersionsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
}

```

```

]
},
"ListLicenses":{
  "name":"ListLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListLicensesRequest"},
  "output":{"shape":"ListLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},

    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"ListReceivedGrants":{
  "name":"ListReceivedGrants",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedGrantsRequest"},
  "output":{"shape":"ListReceivedGrantsResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListReceivedLicenses":{
  "name":"ListReceivedLicenses",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListReceivedLicensesRequest"},
  "output":{"shape":"ListReceivedLicensesResponse"},
  "errors":[
    {"shape":"ValidationException"},

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```

    {"shape":"InvalidParameterValueException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListResourceInventory":{
  "name":"ListResourceInventory",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListResourceInventoryRequest"},
  "output":{"shape":"ListResourceInventoryResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"FailedDependencyException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListTagsForResource":{
  "name":"ListTagsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListTagsForResourceRequest"},
  "output":{"shape":"ListTagsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"ListTokens":{
  "name":"ListTokens",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },

```

```

"input":{"shape":"ListTokensRequest"},
"output":{"shape":"ListTokensResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"}
]
},
"ListUsageForLicenseConfiguration":{
  "name":"ListUsageForLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
  "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"FilterLimitExceededException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"RejectGrant":{
  "name":"RejectGrant",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"RejectGrantRequest"},
  "output":{"shape":"RejectGrantResponse"},
  "errors":[
    {"shape":"ValidationException"},
    {"shape":"InvalidParameterValueException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"},
    {"shape":"ServerInternalException"}
  ]
},
"TagResource":{
  "name":"TagResource",
  "http":{

```

```

    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UntagResource":{
  "name":"UntagResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UpdateLicenseConfiguration":{
  "name":"UpdateLicenseConfiguration",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseConfigurationRequest"},
  "output":{"shape":"UpdateLicenseConfigurationResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"},
    {"shape":"ResourceLimitExceededException"}
  ]
},
"UpdateLicenseManagerReportGenerator":{
  "name":"UpdateLicenseManagerReportGenerator",

```

```

"http":{
  "method":"POST",
  "requestUri":"/"
},
"input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
"output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
"errors":[
  {"shape":"ValidationException"},
  {"shape":"InvalidParameterValueException"},
  {"shape":"RateLimitExceededException"},
  {"shape":"ServerInternalException"},
  {"shape":"AuthorizationException"},
  {"shape":"AccessDeniedException"},
  {"shape":"ResourceNotFoundException"},
  {"shape":"ResourceLimitExceededException"}
]
},
"UpdateLicenseSpecificationsForResource":{
  "name":"UpdateLicenseSpecificationsForResource",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
  "output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"InvalidResourceStateException"},
    {"shape":"LicenseUsageException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},
    {"shape":"RateLimitExceededException"}
  ]
},
"UpdateServiceSettings":{
  "name":"UpdateServiceSettings",
  "http":{
    "method":"POST",
    "requestUri":"/"
  },
  "input":{"shape":"UpdateServiceSettingsRequest"},
  "output":{"shape":"UpdateServiceSettingsResponse"},
  "errors":[
    {"shape":"InvalidParameterValueException"},
    {"shape":"ServerInternalException"},
    {"shape":"AuthorizationException"},
    {"shape":"AccessDeniedException"},

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    {"shape":"RateLimitExceededException"}
  ]
}
},
"shapes":{
  "AcceptGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{"shape":"Arn"}
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{"shape":"Arn"},
      "Status":{"shape":"GrantStatus"},
      "Version":{"shape":"String"}
    }
  },
  "AccessDeniedException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "AllowedOperation":{
    "type":"string",
    "enum":[
      "CreateGrant",
      "CheckoutLicense",
      "CheckoutBorrowLicense",
      "CheckInLicense",
      "ExtendConsumptionLicense",
      "ListPurchasedLicenses",
      "CreateToken"
    ]
  },
  "AllowedOperationList":{
    "type":"list",
    "member":{"shape":"AllowedOperation"},
    "max":7,
    "min":1
  },
  "Arn":{
    "type":"string",
    "max":2048,

```

```

    "pattern": "^arn:aws(-(cn|us-gov|iso-b|iso-c|iso-d))?:[A-Za-z0-9][A-Za-z0-9_/-]{0,62}:[A-Za-z0-9_/-]{0,63}:[A-
Za-z0-9_/-]{0,63}:[A-Za-z0-9][A-Za-z0-9:/+@.-]{0,1023}$"
  },
  "ArnList": {
    "type": "list",
    "member": { "shape": "Arn" }
  },
  "AuthorizationException": {
    "type": "structure",
    "members": {
      "Message": { "shape": "Message" }
    },
    "exception": true
  },
  "AutomatedDiscoveryInformation": {
    "type": "structure",
    "members": {
      "LastRunTime": { "shape": "DateTime" }
    }
  },
  "Boolean": { "type": "boolean" },
  "BorrowConfiguration": {
    "type": "structure",
    "required": [
      "AllowEarlyCheckIn",
      "MaxTimeToLiveInMinutes"
    ],
    "members": {
      "AllowEarlyCheckIn": { "shape": "BoxBoolean" },
      "MaxTimeToLiveInMinutes": { "shape": "BoxInteger" }
    }
  },
  "BoxBoolean": { "type": "boolean" },
  "BoxInteger": { "type": "integer" },
  "BoxLong": { "type": "long" },
  "CheckInLicenseRequest": {
    "type": "structure",
    "required": [ "LicenseConsumptionToken" ],
    "members": {
      "LicenseConsumptionToken": { "shape": "String" },
      "Beneficiary": { "shape": "String" }
    }
  },
  "CheckInLicenseResponse": {
    "type": "structure",
    "members": {
    }
  },
}

```

```

"CheckoutBorrowLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "Entitlements",
    "DigitalSignatureMethod",
    "ClientToken"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "DigitalSignatureMethod":{"shape":"DigitalSignatureMethod"},
    "NodeId":{"shape":"String"},
    "CheckoutMetadata":{"shape":"MetadataList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CheckoutBorrowLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "NodeId":{"shape":"String"},
    "SignedToken":{"shape":"SignedToken"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "CheckoutMetadata":{"shape":"MetadataList"}
  }
},
"CheckoutLicenseRequest":{
  "type":"structure",
  "required":[
    "ProductSKU",
    "CheckoutType",
    "KeyFingerprint",
    "Entitlements",
    "ClientToken"
  ],
  "members":{
    "ProductSKU":{"shape":"String"},
    "CheckoutType":{"shape":"CheckoutType"},
    "KeyFingerprint":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementDataList"},
    "ClientToken":{"shape":"ClientToken"},
    "Beneficiary":{"shape":"String"},
    "NodeId":{"shape":"String"}
  }
}

```

```

},
"CheckoutLicenseResponse":{
  "type":"structure",
  "members":{
    "CheckoutType":{"shape":"CheckoutType"},
    "LicenseConsumptionToken":{"shape":"String"},
    "EntitlementsAllowed":{"shape":"EntitlementDataList"},
    "SignedToken":{"shape":"SignedToken"},
    "NodeId":{"shape":"String"},
    "IssuedAt":{"shape":"ISO8601DateTime"},
    "Expiration":{"shape":"ISO8601DateTime"},
    "LicenseArn":{"shape":"String"}
  }
},
"CheckoutType":{
  "type":"string",
  "enum":[
    "PROVISIONAL",
    "PERPETUAL"
  ]
},
"ClientRequestToken":{
  "type":"string",
  "max":36,
  "min":1
},
"ClientToken":{
  "type":"string",
  "max":2048,
  "pattern":"\\S+"
},
"ConflictException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ConsumedLicenseSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{"shape":"ResourceType"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"ConsumedLicenseSummaryList":{
  "type":"list",
  "member":{"shape":"ConsumedLicenseSummary"}
}

```

```

},
"ConsumptionConfiguration":{
  "type":"structure",
  "members":{
    "RenewType":{"shape":"RenewType"},
    "ProvisionalConfiguration":{"shape":"ProvisionalConfiguration"},
    "BorrowConfiguration":{"shape":"BorrowConfiguration"}
  }
},
"CreateGrantRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantName",
    "LicenseArn",
    "Principals",
    "HomeRegion",
    "AllowedOperations"
  ],
  "members":{
    "ClientToken":{"shape":"ClientToken"},
    "GrantName":{"shape":"String"},
    "LicenseArn":{"shape":"Arn"},
    "Principals":{"shape":"PrincipalArnList"},
    "HomeRegion":{"shape":"String"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
},
"CreateGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"CreateGrantVersionRequest":{
  "type":"structure",
  "required":[
    "ClientToken",
    "GrantArn"
  ],
  "members":{
    "ClientToken":{"shape":"ClientToken"},
    "GrantArn":{"shape":"Arn"},

    "GrantName":{"shape":"String"},
    "AllowedOperations":{"shape":"AllowedOperationList"},

```

```

    "Status":{"shape":"GrantStatus"},
    "StatusReason":{"shape":"StatusReasonMessage"},
    "SourceVersion":{"shape":"String"}
  }
},
"CreateGrantVersionResponse":{"
  "type":"structure",
  "members":{"
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"CreateLicenseConfigurationRequest":{"
  "type":"structure",
  "required":[
    "Name",
    "LicenseCountingType"
  ],
  "members":{"
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "LicenseRules":{"shape":"StringList"},
    "Tags":{"shape":"TagList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
    "ProductInformationList":{"shape":"ProductInformationList"}
  }
},
"CreateLicenseConfigurationResponse":{"
  "type":"structure",
  "members":{"
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"CreateLicenseConversionTaskForResourceRequest":{"
  "type":"structure",
  "required":[
    "ResourceArn",
    "SourceLicenseContext",
    "DestinationLicenseContext"
  ],
  "members":{"
    "ResourceArn":{"shape":"Arn"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"}
  }
}

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```

    }
  },
  "CreateLicenseConversionTaskForResourceResponse":{
    "type":"structure",
    "members":{
      "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
    }
  },
  "CreateLicenseManagerReportGeneratorRequest":{
    "type":"structure",
    "required":[
      "ReportGeneratorName",
      "Type",
      "ReportContext",
      "ReportFrequency",
      "ClientToken"
    ],
    "members":{
      "ReportGeneratorName":{"shape":"ReportGeneratorName"},
      "Type":{"shape":"ReportTypeList"},
      "ReportContext":{"shape":"ReportContext"},
      "ReportFrequency":{"shape":"ReportFrequency"},
      "ClientToken":{"shape":"ClientRequestToken"},
      "Description":{"shape":"String"},
      "Tags":{"shape":"TagList"}
    }
  },
  "CreateLicenseManagerReportGeneratorResponse":{
    "type":"structure",
    "members":{
      "LicenseManagerReportGeneratorArn":{"shape":"String"}
    }
  },
  "CreateLicenseRequest":{
    "type":"structure",
    "required":[
      "LicenseName",
      "ProductName",
      "ProductSKU",
      "Issuer",
      "HomeRegion",
      "Validity",
      "Entitlements",
      "Beneficiary",
      "ConsumptionConfiguration",
      "ClientToken"
    ],
    "members":{

```

```

    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"Issuer"},
    "HomeRegion":{"shape":"String"},
    "Validity":{"shape":"DatetimeRange"},
    "Entitlements":{"shape":"EntitlementList"},
    "Beneficiary":{"shape":"String"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CreateLicenseResponse":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Status":{"shape":"LicenseStatus"},
    "Version":{"shape":"String"}
  }
},
"CreateLicenseVersionRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "LicenseName",
    "ProductName",
    "Issuer",
    "HomeRegion",
    "Validity",
    "Entitlements",
    "ConsumptionConfiguration",
    "Status",
    "ClientToken"
  ]
},
"members":{
  "LicenseArn":{"shape":"Arn"},
  "LicenseName":{"shape":"String"},
  "ProductName":{"shape":"String"},
  "Issuer":{"shape":"Issuer"},
  "HomeRegion":{"shape":"String"},
  "Validity":{"shape":"DatetimeRange"},
  "LicenseMetadata":{"shape":"MetadataList"},
  "Entitlements":{"shape":"EntitlementList"},
  "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
  "Status":{"shape":"LicenseStatus"},
  "ClientToken":{"shape":"ClientToken"},

```

```

    "SourceVersion":{"shape":"String"}
  }
},
"CreateLicenseVersionResponse":{"
  "type":"structure",
  "members":{"
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"}
  }
},
"CreateTokenRequest":{"
  "type":"structure",
  "required":[
    "LicenseArn",
    "ClientToken"
  ],
  "members":{"
    "LicenseArn":{"shape":"Arn"},
    "RoleArns":{"shape":"ArnList"},
    "ExpirationInDays":{"shape":"Integer"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "ClientToken":{"shape":"ClientToken"}
  }
},
"CreateTokenResponse":{"
  "type":"structure",
  "members":{"
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"TokenType"},
    "Token":{"shape":"TokenString"}
  }
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{"
  "type":"structure",
  "required":["Begin"],
  "members":{"
    "Begin":{"shape":"ISO8601DateTime"},
    "End":{"shape":"ISO8601DateTime"}
  }
},
"DeleteGrantRequest":{"
  "type":"structure",
  "required":[
    "GrantArn",
    "Version"
  ],

```

```

"members":{
  "GrantArn":{"shape":"Arn"},
  "StatusReason":{"shape":"StatusReasonMessage"},
  "Version":{"shape":"String"}
}
},
"DeleteGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"DeleteLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"DeleteLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseManagerReportGeneratorRequest":{
  "type":"structure",
  "required":["LicenseManagerReportGeneratorArn"],
  "members":{
    "LicenseManagerReportGeneratorArn":{"shape":"String"}
  }
},
"DeleteLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"DeleteLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "SourceVersion"
  ],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "SourceVersion":{"shape":"String"}
  }
}

```

```

},
"DeleteLicenseResponse":{
  "type":"structure",
  "members":{
    "Status":{"shape":"LicenseDeletionStatus"},
    "DeletionDate":{"shape":"ISO8601DateTime"}
  }
},
"DeleteTokenRequest":{
  "type":"structure",
  "required":["TokenId"],
  "members":{
    "TokenId":{"shape":"String"}
  }
},
"DeleteTokenResponse":{
  "type":"structure",
  "members":{
  }
},
"DigitalSignatureMethod":{
  "type":"string",
  "enum":["JWT_PS384"]
},
"Entitlement":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"},
    "MaxCount":{"shape":"Long"},
    "Overage":{"shape":"BoxBoolean"},
    "Unit":{"shape":"EntitlementUnit"},
    "AllowCheckIn":{"shape":"BoxBoolean"}
  }
},
"EntitlementData":{
  "type":"structure",
  "required":[
    "Name",
    "Unit"
  ],
  "members":{
    "Name":{"shape":"String"},

```

```

    "Value":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
},
"EntitlementDataList":{"
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{"
  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementList":{"
  "type":"list",
  "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{"
  "type":"structure",
  "members":{"
    "Message":{"shape":"Message"}
  }
}

```

```

    },
    "exception":true
  },
  "EntitlementUnit":{
    "type":"string",
    "enum":[
      "Count",
      "None",
      "Seconds",
      "Microseconds",
      "Milliseconds",
      "Bytes",
      "Kilobytes",
      "Megabytes",
      "Gigabytes",
      "Terabytes",
      "Bits",
      "Kilobits",
      "Megabits",
      "Gigabits",
      "Terabits",
      "Percent",
      "Bytes/Second",
      "Kilobytes/Second",
      "Megabytes/Second",
      "Gigabytes/Second",
      "Terabytes/Second",
      "Bits/Second",
      "Kilobits/Second",
      "Megabits/Second",
      "Gigabits/Second",
      "Terabits/Second",
      "Count/Second"
    ]
  },
  "EntitlementUsage":{
    "type":"structure",
    "required":[
      "Name",
      "ConsumedValue",
      "Unit"
    ]
  },
  "members":{
    "Name":{"shape":"String"},
    "ConsumedValue":{"shape":"String"},
    "MaxCount":{"shape":"String"},
    "Unit":{"shape":"EntitlementDataUnit"}
  }
}

```

```

    }
  },
  "EntitlementUsageList":{
    "type":"list",
    "member":{"shape":"EntitlementUsage"}
  },
  "ExtendLicenseConsumptionRequest":{
    "type":"structure",
    "required":["LicenseConsumptionToken"],
    "members":{
      "LicenseConsumptionToken":{"shape":"String"},
      "DryRun":{"shape":"Boolean"}
    }
  },
  "ExtendLicenseConsumptionResponse":{
    "type":"structure",
    "members":{
      "LicenseConsumptionToken":{"shape":"String"},
      "Expiration":{"shape":"ISO8601DateTime"}
    }
  },
  "FailedDependencyException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"},
      "ErrorCode":{"shape":"String"}
    },
    "exception":true
  },
  "Filter":{
    "type":"structure",
    "members":{
      "Name":{"shape":"FilterName"},
      "Values":{"shape":"FilterValues"}
    }
  },
  "FilterLimitExceededException":{
    "type":"structure",
    "members":{
      "Message":{"shape":"Message"}
    },
    "exception":true
  },
  "FilterList":{
    "type":"list",
    "member":{"shape":"Filter"}
  },
  "FilterName":{"type":"string"},

```

```

"FilterValue":{"type":"string"},
"FilterValues":{
  "type":"list",
  "member":{"shape":"FilterValue"}
},
"Filters":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"GetAccessTokenRequest":{
  "type":"structure",
  "required":["Token"],
  "members":{
    "Token":{"shape":"TokenString"},
    "TokenProperties":{"shape":"MaxSize3StringList"}
  }
},
"GetAccessTokenResponse":{
  "type":"structure",
  "members":{
    "AccessToken":{"shape":"TokenString"}
  }
},
"GetGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Version":{"shape":"String"}
  }
},
"GetGrantResponse":{
  "type":"structure",
  "members":{
    "Grant":{"shape":"Grant"}
  }
},
"GetLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"}
  }
},
"GetLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{"shape":"String"},

```

```

"LicenseConfigurationArn":{"shape":"String"},
"Name":{"shape":"String"},
"Description":{"shape":"String"},
"LicenseCountingType":{"shape":"LicenseCountingType"},
"LicenseRules":{"shape":"StringList"},
"LicenseCount":{"shape":"BoxLong"},
"LicenseCountHardLimit":{"shape":"BoxBoolean"},
"ConsumedLicenses":{"shape":"BoxLong"},
"Status":{"shape":"String"},
"OwnerAccountId":{"shape":"String"},
"ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
"ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
"Tags":{"shape":"TagList"},
"ProductInformationList":{"shape":"ProductInformationList"},
"AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"},
"DisassociateWhenNotFound":{"shape":"BoxBoolean"}
}
},
"GetLicenseConversionTaskRequest":{"
"type":"structure",
"required":["LicenseConversionTaskId"],
"members":{"
"LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"}
}
},
"GetLicenseConversionTaskResponse":{"
"type":"structure",
"members":{"
"LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
"ResourceArn":{"shape":"String"},
"SourceLicenseContext":{"shape":"LicenseConversionContext"},
"DestinationLicenseContext":{"shape":"LicenseConversionContext"},
"StatusMessage":{"shape":"String"},
"Status":{"shape":"LicenseConversionTaskStatus"},
"StartTime":{"shape":"DateTime"},
"LicenseConversionTime":{"shape":"DateTime"},
"EndTime":{"shape":"DateTime"}
}
},
"GetLicenseManagerReportGeneratorRequest":{"
"type":"structure",
"required":["LicenseManagerReportGeneratorArn"],
"members":{"
"LicenseManagerReportGeneratorArn":{"shape":"String"}
}
},
"GetLicenseManagerReportGeneratorResponse":{"
"type":"structure",

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```

"members":{
  "ReportGenerator":{"shape":"ReportGenerator"}
}
},
"GetLicenseRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "Version":{"shape":"String"}
  }
},
"GetLicenseResponse":{
  "type":"structure",
  "members":{
    "License":{"shape":"License"}
  }
},
"GetLicenseUsageRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{"shape":"Arn"}
  }
},
"GetLicenseUsageResponse":{
  "type":"structure",
  "members":{
    "LicenseUsage":{"shape":"LicenseUsage"}
  }
},
"GetServiceSettingsRequest":{
  "type":"structure",
  "members":{
  }
},
"GetServiceSettingsResponse":{
  "type":"structure",
  "members":{
    "S3BucketArn":{"shape":"String"},
    "SnsTopicArn":{"shape":"String"},
    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"},
    "LicenseManagerResourceShareArn":{"shape":"String"}
  }
},
"Grant":{
  "type":"structure",

```

```

"required":[
  "GrantArn",
  "GrantName",
  "ParentArn",
  "LicenseArn",
  "GranteePrincipalArn",
  "HomeRegion",
  "GrantStatus",
  "Version",
  "GrantedOperations"
],
"members":{
  "GrantArn":{"shape":"Arn"},
  "GrantName":{"shape":"String"},
  "ParentArn":{"shape":"Arn"},
  "LicenseArn":{"shape":"Arn"},
  "GranteePrincipalArn":{"shape":"Arn"},
  "HomeRegion":{"shape":"String"},
  "GrantStatus":{"shape":"GrantStatus"},
  "StatusReason":{"shape":"StatusReasonMessage"},
  "Version":{"shape":"String"},
  "GrantedOperations":{"shape":"AllowedOperationList"}
}
},
"GrantList":{
  "type":"list",
  "member":{"shape":"Grant"}
},
"GrantStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "PENDING_DELETE",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"GrantedLicense":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},

```

```

    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},
    "LicenseMetadata":{"shape":"MetadataList"},
    "CreateTime":{"shape":"ISO8601DateTime"},
    "Version":{"shape":"String"},
    "ReceivedMetadata":{"shape":"ReceivedMetadata"}
  }
},
"GrantedLicenseList":{
  "type":"list",
  "member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{
  "type":"string",
  "max":50,
  "pattern":"^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]||1-2|[0-9])T(2[0-3]||[0-1]||[0-9]):([0-5]||[0-9]):([0-5]||[0-9])\\.(?:[0-9]+)?(?:Z|[-+](?:2[0-3]||[0-1]||[0-9]):[0-5]||[0-9])+$"
},
"Integer":{"type":"integer"},
"InvalidParameterValueException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true,
  "synthetic":true
},
"InvalidResourceStateException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"InventoryFilter":{
  "type":"structure",
  "required":[
    "Name",
    "Condition"
  ],
  "members":{

```

```

    "Name":{"shape":"String"},
    "Condition":{"shape":"InventoryFilterCondition"},
    "Value":{"shape":"String"}
  }
},
"InventoryFilterCondition":{
  "type":"string",
  "enum":[
    "EQUALS",
    "NOT_EQUALS",
    "BEGINS_WITH",
    "CONTAINS"
  ]
},
"InventoryFilterList":{
  "type":"list",
  "member":{"shape":"InventoryFilter"}
},
"Issuer":{
  "type":"structure",
  "required":["Name"],
  "members":{
    "Name":{"shape":"String"},
    "SignKey":{"shape":"String"}
  }
},
"IssuerDetails":{
  "type":"structure",
  "members":{
    "Name":{"shape":"String"},
    "SignKey":{"shape":"String"},
    "KeyFingerprint":{"shape":"String"}
  }
},
"License":{
  "type":"structure",
  "members":{
    "LicenseArn":{"shape":"Arn"},
    "LicenseName":{"shape":"String"},
    "ProductName":{"shape":"String"},
    "ProductSKU":{"shape":"String"},
    "Issuer":{"shape":"IssuerDetails"},
    "HomeRegion":{"shape":"String"},
    "Status":{"shape":"LicenseStatus"},
    "Validity":{"shape":"DatetimeRange"},
    "Beneficiary":{"shape":"String"},
    "Entitlements":{"shape":"EntitlementList"},
    "ConsumptionConfiguration":{"shape":"ConsumptionConfiguration"},

```

```

    "LicenseMetadata":{"shape":"MetadataList"},
    "CreateTime":{"shape":"ISO8601DateTime"},
    "Version":{"shape":"String"}
  }
},
"LicenseConfiguration":{
  "type":"structure",
  "members":{
    "LicenseConfigurationId":{"shape":"String"},
    "LicenseConfigurationArn":{"shape":"String"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "LicenseCountingType":{"shape":"LicenseCountingType"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"},
    "ConsumedLicenses":{"shape":"BoxLong"},
    "Status":{"shape":"String"},
    "OwnerAccountId":{"shape":"String"},
    "ConsumedLicenseSummaryList":{"shape":"ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList":{"shape":"ManagedResourceSummaryList"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "AutomatedDiscoveryInformation":{"shape":"AutomatedDiscoveryInformation"}
  }
},
"LicenseConfigurationAssociation":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "AmiAssociationScope":{"shape":"String"}
  }
},
"LicenseConfigurationAssociations":{
  "type":"list",
  "member":{"shape":"LicenseConfigurationAssociation"}
},
"LicenseConfigurationStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "DISABLED"
  ]
},

```

```

"LicenseConfigurationUsage":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceStatus":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "AssociationTime":{"shape":"DateTime"},
    "ConsumedLicenses":{"shape":"BoxLong"}
  }
},
"LicenseConfigurationUsageList":{
  "type":"list",

  "member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
  "type":"list",
  "member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
  "type":"structure",
  "members":{
    "UsageOperation":{"shape":"UsageOperation"}
  }
},
"LicenseConversionTask":{
  "type":"structure",
  "members":{
    "LicenseConversionTaskId":{"shape":"LicenseConversionTaskId"},
    "ResourceArn":{"shape":"String"},
    "SourceLicenseContext":{"shape":"LicenseConversionContext"},
    "DestinationLicenseContext":{"shape":"LicenseConversionContext"},
    "Status":{"shape":"LicenseConversionTaskStatus"},
    "StatusMessage":{"shape":"String"},
    "StartTime":{"shape":"DateTime"},
    "LicenseConversionTime":{"shape":"DateTime"},
    "EndTime":{"shape":"DateTime"}
  }
},
"LicenseConversionTaskId":{
  "type":"string",
  "max":50,
  "pattern":"^lct-[a-zA-Z0-9]*"
},
"LicenseConversionTaskStatus":{
  "type":"string",

```

```

"enum":[
  "IN_PROGRESS",
  "SUCCEEDED",
  "FAILED"
]
},
"LicenseConversionTasks":{
  "type":"list",
  "member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseDeletionStatus":{
  "type":"string",
  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseList":{
  "type":"list",
  "member":{"shape":"License"}
},
"LicenseOperationFailure":{
  "type":"structure",
  "members":{
    "ResourceArn":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ErrorMessage":{"shape":"String"},
    "FailureTime":{"shape":"DateTime"},
    "OperationName":{"shape":"String"},
    "ResourceOwnerId":{"shape":"String"},
    "OperationRequestedBy":{"shape":"String"},
    "MetadataList":{"shape":"MetadataList"}
  }
},
"LicenseOperationFailureList":{
  "type":"list",
  "member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{

```

```

"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
  "LicenseConfigurationArn":{"shape":"String"},
  "AmiAssociationScope":{"shape":"String"}
}
},
"LicenseSpecifications":{
  "type":"list",
  "member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
  "type":"string",
  "enum":[
    "AVAILABLE",
    "PENDING_AVAILABLE",
    "DEACTIVATED",
    "SUSPENDED",
    "EXPIRED",
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseUsage":{
  "type":"structure",
  "members":{
    "EntitlementUsages":{"shape":"EntitlementUsageList"}
  }
},
"LicenseUsageException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ListAssociationsForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListAssociationsForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{

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```

    "LicenseConfigurationAssociations":{"shape":"LicenseConfigurationAssociations"},
    "NextToken":{"shape":"String"}
  }
},
"ListDistributedGrantsRequest":{
  "type":"structure",
  "members":{
    "GrantArns":{"shape":"ArnList"},
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListDistributedGrantsResponse":{
  "type":"structure",
  "members":{
    "Grants":{"shape":"GrantList"},
    "NextToken":{"shape":"String"}
  }
},
"ListFailuresForLicenseConfigurationOperationsRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListFailuresForLicenseConfigurationOperationsResponse":{
  "type":"structure",
  "members":{
    "LicenseOperationFailureList":{"shape":"LicenseOperationFailureList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseConfigurationsRequest":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArns":{"shape":"StringList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
"ListLicenseConfigurationsResponse":{
  "type":"structure",
  "members":{

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```

    "LicenseConfigurations":{"shape":"LicenseConfigurations"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseConversionTasksRequest":{"
  "type":"structure",
  "members":{"
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "Filters":{"shape":"Filters"}
  }
},
"ListLicenseConversionTasksResponse":{"
  "type":"structure",
  "members":{"
    "LicenseConversionTasks":{"shape":"LicenseConversionTasks"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseManagerReportGeneratorsRequest":{"
  "type":"structure",
  "members":{"
    "Filters":{"shape":"FilterList"},
    "NextToken":{"shape":"String"},
    "MaxResults":{"shape":"MaxSize100"}
  }
},
"ListLicenseManagerReportGeneratorsResponse":{"
  "type":"structure",
  "members":{"
    "ReportGenerators":{"shape":"ReportGeneratorList"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceRequest":{"
  "type":"structure",
  "required":["ResourceArn"],
  "members":{"
    "ResourceArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceResponse":{"
  "type":"structure",
  "members":{"
    "LicenseSpecifications":{"shape":"LicenseSpecifications"},
    "NextToken":{"shape":"String"}
  }
}

```

```

    }
  },
  "ListLicenseVersionsRequest":{
    "type":"structure",
    "required":["LicenseArn"],
    "members":{
      "LicenseArn":{"shape":"Arn"},
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"MaxSize100"}
    }
  },
  "ListLicenseVersionsResponse":{
    "type":"structure",
    "members":{
      "Licenses":{"shape":"LicenseList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListLicensesRequest":{
    "type":"structure",
    "members":{
      "LicenseArns":{"shape":"ArnList"},
      "Filters":{"shape":"FilterList"},
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"MaxSize100"}
    }
  },
  "ListLicensesResponse":{
    "type":"structure",
    "members":{
      "Licenses":{"shape":"LicenseList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListReceivedGrantsRequest":{
    "type":"structure",
    "members":{
      "GrantArns":{"shape":"ArnList"},
      "Filters":{"shape":"FilterList"},
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"MaxSize100"}
    }
  },
  "ListReceivedGrantsResponse":{
    "type":"structure",
    "members":{
      "Grants":{"shape":"GrantList"},
      "NextToken":{"shape":"String"}
    }
  }
}

```

```

    }
  },
  "ListReceivedLicensesRequest":{
    "type":"structure",
    "members":{
      "LicenseArns":{"shape":"ArnList"},
      "Filters":{"shape":"FilterList"},
      "NextToken":{"shape":"String"},
      "MaxResults":{"shape":"MaxSize100"}
    }
  },
  "ListReceivedLicensesResponse":{
    "type":"structure",
    "members":{
      "Licenses":{"shape":"GrantedLicenseList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListResourceInventoryRequest":{
    "type":"structure",
    "members":{
      "MaxResults":{"shape":"BoxInteger"},
      "NextToken":{"shape":"String"},
      "Filters":{"shape":"InventoryFilterList"}
    }
  },
  "ListResourceInventoryResponse":{
    "type":"structure",
    "members":{
      "ResourceInventoryList":{"shape":"ResourceInventoryList"},
      "NextToken":{"shape":"String"}
    }
  },
  "ListTagsForResourceRequest":{
    "type":"structure",
    "required":["ResourceArn"],
    "members":{
      "ResourceArn":{"shape":"String"}
    }
  },
  "ListTagsForResourceResponse":{
    "type":"structure",
    "members":{
      "Tags":{"shape":"TagList"}
    }
  },
  "ListTokensRequest":{
    "type":"structure",

```

```

"members":{
  "TokenIds":{"shape":"StringList"},
  "Filters":{"shape":"FilterList"},
  "NextToken":{"shape":"String"},
  "MaxResults":{"shape":"MaxSize100"}
}
},
>ListTokensResponse":{
  "type":"structure",
  "members":{
    "Tokens":{"shape":"TokenList"},
    "NextToken":{"shape":"String"}
  }
},
>ListUsageForLicenseConfigurationRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
>ListUsageForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationUsageList":{"shape":"LicenseConfigurationUsageList"},
    "NextToken":{"shape":"String"}
  }
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{"shape":"ResourceType"},
    "AssociationCount":{"shape":"BoxLong"}
  }
},
"ManagedResourceSummaryList":{
  "type":"list",
  "member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
  "type":"integer",
  "max":100,
  "min":1
}

```

```

},
"MaxSize3StringList":{
  "type":"list",
  "member":{"shape":"String"},
  "max":3
},
"Message":{"type":"string"},
"Metadata":{
  "type":"structure",
  "members":{
    "Name":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"MetadataList":{
  "type":"list",
  "member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"OrganizationConfiguration":{
  "type":"structure",
  "required":["EnableIntegration"],
  "members":{
    "EnableIntegration":{"shape":"Boolean"}
  }
},
"PrincipalArnList":{
  "type":"list",
  "member":{"shape":"Arn"},
  "max":1,
  "min":1
},
"ProductInformation":{
  "type":"structure",
  "required":[
    "ResourceType",
    "ProductInformationFilterList"
  ],
  "members":{
    "ResourceType":{"shape":"String"},
    "ProductInformationFilterList":{"shape":"ProductInformationFilterList"}
  }
}

```

```

},
"ProductInformationFilter":{
  "type":"structure",
  "required":[
    "ProductInformationFilterName",
    "ProductInformationFilterComparator"
  ],
  "members":{
    "ProductInformationFilterName":{"shape":"String"},
    "ProductInformationFilterValue":{"shape":"StringList"},
    "ProductInformationFilterComparator":{"shape":"String"}
  }
},
"ProductInformationFilterList":{
  "type":"list",
  "member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
  "type":"list",
  "member":{"shape":"ProductInformation"}
},
"ProvisionalConfiguration":{
  "type":"structure",
  "required":["MaxTimeToLiveInMinutes"],
  "members":{
    "MaxTimeToLiveInMinutes":{"shape":"BoxInteger"}
  }
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ReceivedMetadata":{
  "type":"structure",
  "members":{
    "ReceivedStatus":{"shape":"ReceivedStatus"},
    "ReceivedStatusReason":{"shape":"StatusReasonMessage"},
    "AllowedOperations":{"shape":"AllowedOperationList"}
  }
},
"ReceivedStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",

```

```

    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"RedirectException":{
  "type":"structure",

"members":{
  "Location":{"shape":"Location"},
  "Message":{"shape":"Message"}
},
  "exception":true
},
"RejectGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{"shape":"Arn"}
  }
},
"RejectGrantResponse":{
  "type":"structure",
  "members":{
    "GrantArn":{"shape":"Arn"},
    "Status":{"shape":"GrantStatus"},
    "Version":{"shape":"String"}
  }
},
"RenewType":{
  "type":"string",
  "enum":[
    "None",
    "Weekly",
    "Monthly"
  ]
},
"ReportContext":{
  "type":"structure",
  "required":["licenseConfigurationArns"],
  "members":{
    "licenseConfigurationArns":{"shape":"ArnList"}
  }
},

```

```

"ReportFrequency":{
  "type":"structure",
  "members":{
    "value":{"shape":"Integer"},
    "period":{"shape":"ReportFrequencyType"}
  }
},
"ReportFrequencyType":{
  "type":"string",
  "enum":[
    "DAY",
    "WEEK",
    "MONTH"
  ]
},
"ReportGenerator":{
  "type":"structure",
  "members":{
    "ReportGeneratorName":{"shape":"String"},
    "ReportType":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "LastRunStatus":{"shape":"String"},
    "LastRunFailureReason":{"shape":"String"},
    "LastReportGenerationTime":{"shape":"String"},
    "ReportCreatorAccount":{"shape":"String"},
    "Description":{"shape":"String"},
    "S3Location":{"shape":"S3Location"},
    "CreateTime":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"ReportGeneratorList":{
  "type":"list",
  "member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
  "type":"string",
  "max":100,
  "min":1
},
"ReportType":{
  "type":"string",
  "enum":[
    "LicenseConfigurationSummaryReport",
    "LicenseConfigurationUsageReport"
  ]
}

```

```

},
"ReportTypeList":{
  "type":"list",
  "member":{"shape":"ReportType"}
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceArn":{"shape":"String"},
    "Platform":{"shape":"String"},
    "PlatformVersion":{"shape":"String"},
    "ResourceOwningAccountId":{"shape":"String"}
  }
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceNotFoundException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI",
    "RDS",
    "SYSTEMS_MANAGER_MANAGED_INSTANCE"
  ]
},
"S3Location":{
  "type":"structure",
  "members":{
    "bucket":{"shape":"String"},

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```

    "keyPrefix":{"shape":"String"}
  }
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true,
  "fault":true
},
"SignedToken":{
  "type":"string",
  "min":4096
},
"StatusReasonMessage":{
  "type":"string",
  "max":400,
  "pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"Tag":{
  "type":"structure",
  "members":{
    "Key":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"TagKeyList":{
  "type":"list",

"member":{"shape":"String"}
},
"TagList":{
  "type":"list",
  "member":{"shape":"Tag"}
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{

```

```

    "ResourceArn":{"shape":"String"},
    "Tags":{"shape":"TagList"}
  }
},
"TagResourceResponse":{"
  "type":"structure",
  "members":{"
  }
},
"TokenData":{"
  "type":"structure",
  "members":{"
    "TokenId":{"shape":"String"},
    "TokenType":{"shape":"String"},
    "LicenseArn":{"shape":"String"},
    "ExpirationTime":{"shape":"ISO8601DateTime"},
    "TokenProperties":{"shape":"MaxSize3StringList"},
    "RoleArns":{"shape":"ArnList"},
    "Status":{"shape":"String"}
  }
},
"TokenList":{"
  "type":"list",
  "member":{"shape":"TokenData"}
},
"TokenString":{"
  "type":"string",
  "max":4096,
  "pattern":"\\S+"
},
"TokenType":{"
  "type":"string",
  "enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{"
  "type":"structure",
  "members":{"
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"UntagResourceRequest":{"
  "type":"structure",
  "required":[
    "ResourceArn",
    "TagKeys"
  ],
  "members":{"

```

```

    "ResourceArn":{"shape":"String"},
    "TagKeys":{"shape":"TagKeyList"}
  }
},
"UntagResourceResponse":{"
  "type":"structure",
  "members":{"
  }
},
"UpdateLicenseConfigurationRequest":{"
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{"
    "LicenseConfigurationArn":{"shape":"String"},
    "LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},
    "LicenseRules":{"shape":"StringList"},
    "LicenseCount":{"shape":"BoxLong"},
    "LicenseCountHardLimit":{"shape":"BoxBoolean"},
    "Name":{"shape":"String"},
    "Description":{"shape":"String"},
    "ProductInformationList":{"shape":"ProductInformationList"},
    "DisassociateWhenNotFound":{"shape":"BoxBoolean"}
  }
},
"UpdateLicenseConfigurationResponse":{"
  "type":"structure",
  "members":{"
  }
},
"UpdateLicenseManagerReportGeneratorRequest":{"
  "type":"structure",
  "required":[
    "LicenseManagerReportGeneratorArn",
    "ReportGeneratorName",
    "Type",
    "ReportContext",
    "ReportFrequency",
    "ClientToken"
  ],
  "members":{"
    "LicenseManagerReportGeneratorArn":{"shape":"String"},
    "ReportGeneratorName":{"shape":"ReportGeneratorName"},
    "Type":{"shape":"ReportTypeList"},
    "ReportContext":{"shape":"ReportContext"},
    "ReportFrequency":{"shape":"ReportFrequency"},
    "ClientToken":{"shape":"ClientRequestToken"},
    "Description":{"shape":"String"}
  }
}

```

```

},
"UpdateLicenseManagerReportGeneratorResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"},
    "AddLicenseSpecifications":{"shape":"LicenseSpecifications"},
    "RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}
  }
},
"UpdateLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
  }
},
"UpdateServiceSettingsRequest":{
  "type":"structure",
  "members":{
    "S3BucketArn":{"shape":"String"},
    "SnsTopicArn":{"shape":"String"},
    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},
    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}
  }
},
"UpdateServiceSettingsResponse":{
  "type":"structure",
  "members":{
  }
},
"UsageOperation":{
  "type":"string",
  "max":50
},
"ValidationException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
}
}
}

```

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```
{
  "version": "2.0",
  "metadata": {
    "apiVersion": "2018-05-10",
    "endpointPrefix": "license-manager-user-subscriptions",
    "jsonVersion": "1.1",
    "protocol": "rest-json",
    "serviceFullName": "AWS License Manager User Subscriptions",
    "serviceId": "License Manager User Subscriptions",
    "signatureVersion": "v4",
    "signingName": "license-manager-user-subscriptions",
    "uid": "license-manager-user-subscriptions-2018-05-10"
  },
  "operations": {
    "AssociateUser": {
      "name": "AssociateUser",
      "http": {
        "method": "POST",
        "requestUri": "/user/AssociateUser",
        "responseCode": 200
      }
    }
  }
}
```

```

    },
    "input":{"shape":"AssociateUserRequest"},
    "output":{"shape":"AssociateUserResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}
    ],
    "idempotent":true
  },
  "DeregisterIdentityProvider":{
    "name":"DeregisterIdentityProvider",
    "http":{
      "method":"POST",
      "requestUri":"/identity-provider/DeregisterIdentityProvider",
      "responseCode":200
    },
    "input":{"shape":"DeregisterIdentityProviderRequest"},
    "output":{"shape":"DeregisterIdentityProviderResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},
      {"shape":"InternalServerError"},
      {"shape":"ResourceNotFoundException"},
      {"shape":"AccessDeniedException"}
    ],
    "idempotent":true
  },
  "DisassociateUser":{
    "name":"DisassociateUser",
    "http":{
      "method":"POST",
      "requestUri":"/user/DisassociateUser",
      "responseCode":200
    },
    "input":{"shape":"DisassociateUserRequest"},
    "output":{"shape":"DisassociateUserResponse"},
    "errors":[
      {"shape":"ServiceQuotaExceededException"},
      {"shape":"ConflictException"},
      {"shape":"ValidationException"},
      {"shape":"ThrottlingException"},

```

```

    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
},
"ListIdentityProviders":{
  "name":"ListIdentityProviders",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/ListIdentityProviders",
    "responseCode":200
  },
  "input":{"shape":"ListIdentityProvidersRequest"},
  "output":{"shape":"ListIdentityProvidersResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"ListInstances":{
  "name":"ListInstances",
  "http":{
    "method":"POST",
    "requestUri":"/instance/ListInstances",
    "responseCode":200
  },
  "input":{"shape":"ListInstancesRequest"},
  "output":{"shape":"ListInstancesResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"ListProductSubscriptions":{
  "name":"ListProductSubscriptions",
  "http":{
    "method":"POST",

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```

    "requestUri":"/user/ListProductSubscriptions",
    "responseCode":200
  },
  "input":{"shape":"ListProductSubscriptionsRequest"},
  "output":{"shape":"ListProductSubscriptionsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"ListUserAssociations":{
  "name":"ListUserAssociations",
  "http":{
    "method":"POST",
    "requestUri":"/user/ListUserAssociations",
    "responseCode":200
  },
  "input":{"shape":"ListUserAssociationsRequest"},
  "output":{"shape":"ListUserAssociationsResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"RegisterIdentityProvider":{
  "name":"RegisterIdentityProvider",
  "http":{
    "method":"POST",
    "requestUri":"/identity-provider/RegisterIdentityProvider",
    "responseCode":200
  },
  "input":{"shape":"RegisterIdentityProviderRequest"},
  "output":{"shape":"RegisterIdentityProviderResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},

```

```

    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "idempotent":true
},
"StartProductSubscription":{
  "name":"StartProductSubscription",
  "http":{
    "method":"POST",
    "requestUri":"/user/StartProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StartProductSubscriptionRequest"},

  "output":{"shape":"StartProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ]
},
"StopProductSubscription":{
  "name":"StopProductSubscription",
  "http":{
    "method":"POST",
    "requestUri":"/user/StopProductSubscription",
    "responseCode":200
  },
  "input":{"shape":"StopProductSubscriptionRequest"},
  "output":{"shape":"StopProductSubscriptionResponse"},
  "errors":[
    {"shape":"ServiceQuotaExceededException"},
    {"shape":"ConflictException"},
    {"shape":"ValidationException"},
    {"shape":"ThrottlingException"},
    {"shape":"InternalServerError"},
    {"shape":"ResourceNotFoundException"},

    {"shape":"AccessDeniedException"}
  ]
}
},
"shapes":{

```

```

"AccessDeniedException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"ActiveDirectoryIdentityProvider":{
  "type":"structure",
  "members":{
    "DirectoryId":{"shape":"String"}
  }
},
"AssociateUserRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"AssociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{"shape":"InstanceUserSummary"}
  }
},
"BoxInteger":{
  "type":"integer",
  "box":true
},
"ConflictException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"DeregisterIdentityProviderRequest":{
  "type":"structure",

```

```

"required":[
  "IdentityProvider",
  "Product"
],
"members":{
  "IdentityProvider":{"shape":"IdentityProvider"},
  "Product":{"shape":"String"}
}
},
"DeregisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"DisassociateUserRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"DisassociateUserResponse":{
  "type":"structure",
  "required":["InstanceUserSummary"],
  "members":{
    "InstanceUserSummary":{"shape":"InstanceUserSummary"}
  }
},
"Filter":{
  "type":"structure",
  "members":{
    "Attribute":{"shape":"String"},
    "Operation":{"shape":"String"},
    "Value":{"shape":"String"}
  }
},
"FilterList":{
  "type":"list",
  "member":{"shape":"Filter"}
}

```

```

},
"IdentityProvider":{
  "type":"structure",
  "members":{
    "ActiveDirectoryIdentityProvider":{"shape":"ActiveDirectoryIdentityProvider"}
  },
  "union":true
},
"IdentityProviderSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Status"
  ],
  "members":{
    "FailureMessage":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Status":{"shape":"String"}
  }
},
"IdentityProviderSummaryList":{
  "type":"list",
  "member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
  "type":"structure",
  "required":[
    "InstanceId",
    "Products",
    "Status"
  ],
  "members":{
    "InstanceId":{"shape":"String"},
    "LastStatusCheckDate":{"shape":"String"},
    "Products":{"shape":"StringList"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"}
  }
},
"InstanceSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
  "type":"structure",
  "required":[

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```

    "IdentityProvider",
    "InstanceId",
    "Status",
    "Username"
  ],
  "members":{
    "AssociationDate":{"shape":"String"},
    "DisassociationDate":{"shape":"String"},
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"InstanceUserSummaryList":{
  "type":"list",
  "member":{"shape":"InstanceUserSummary"}
},
"InternalServerError":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true,
  "fault":true
},
"ListIdentityProvidersRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListIdentityProvidersResponse":{
  "type":"structure",
  "required":["IdentityProviderSummaries"],
  "members":{
    "IdentityProviderSummaries":{"shape":"IdentityProviderSummaryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListInstancesRequest":{
  "type":"structure",
  "members":{
    "Filters":{"shape":"FilterList"},

```

```

"MaxResults":{"shape":"BoxInteger"},
  "NextToken":{"shape":"String"}
}
},
"ListInstancesResponse":{"
  "type":"structure",
  "members":{"
    "InstanceSummaries":{"shape":"InstanceSummaryList"},
    "NextToken":{"shape":"String"}
  }
},
"ListProductSubscriptionsRequest":{"
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{"
    "Filters":{"shape":"FilterList"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Product":{"shape":"String"}
  }
},
"ListProductSubscriptionsResponse":{"
  "type":"structure",
  "members":{"
    "NextToken":{"shape":"String"},
    "ProductUserSummaries":{"shape":"ProductUserSummaryList"}
  }
},
"ListUserAssociationsRequest":{"
  "type":"structure",
  "required":[
    "IdentityProvider",
    "InstanceId"
  ],
  "members":{"
    "Filters":{"shape":"FilterList"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "InstanceId":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListUserAssociationsResponse":{"
  "type":"structure",

```

```

"members":{
  "InstanceUserSummaries":{"shape":"InstanceUserSummaryList"},
  "NextToken":{"shape":"String"}
}
},
"ProductUserSummary":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Status",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Status":{"shape":"String"},
    "StatusMessage":{"shape":"String"},
    "SubscriptionEndDate":{"shape":"String"},
    "SubscriptionStartDate":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"ProductUserSummaryList":{
  "type":"list",
  "member":{"shape":"ProductUserSummary"}
},
"RegisterIdentityProviderRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product"
  ],
  "members":{
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"}
  }
},
"RegisterIdentityProviderResponse":{
  "type":"structure",
  "required":["IdentityProviderSummary"],
  "members":{
    "IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
  }
},
"ResourceNotFoundException":{
  "type":"structure",

```

```

"members":{
  "message":{"shape":"String"}
},
"error":{
  "statusCode":404,
  "senderFault":true
},
"exception":true
},
"ServiceQuotaExceededException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"StartProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},
    "Username":{"shape":"String"}
  }
},
"StartProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{"shape":"ProductUserSummary"}
  }
},
"StopProductSubscriptionRequest":{
  "type":"structure",
  "required":[
    "IdentityProvider",
    "Product",
    "Username"
  ],
  "members":{
    "Domain":{"shape":"String"},
    "IdentityProvider":{"shape":"IdentityProvider"},
    "Product":{"shape":"String"},

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```

    "Username":{"shape":"String"}
  }
},
"StopProductSubscriptionResponse":{
  "type":"structure",
  "required":["ProductUserSummary"],
  "members":{
    "ProductUserSummary":{"shape":"ProductUserSummary"}
  }
},
"String":{"type":"string"},
"StringList":{
  "type":"list",
  "member":{"shape":"String"}
},
"ThrottlingException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
},
"ValidationException":{
  "type":"structure",
  "members":{
    "message":{"shape":"String"}
  },
  "exception":true
}
}
}
{
  "version": "2.0",
  "service": "<p>License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers.</p>",
  "operations": {
    "AcceptGrant": "<p>Accepts the specified grant.</p>",
    "CheckInLicense": "<p>Checks in the specified license. Check in a license when it is no longer in use.</p>",
    "CheckoutBorrowLicense": "<p>Checks out the specified license for offline use.</p>",
    "CheckoutLicense": "<p>Checks out the specified license.</p>",
    "CreateGrant": "<p>Creates a grant for the specified license. A grant shares the use of license entitlements with specific Amazon Web Services accounts.</p>",
    "CreateGrantVersion": "<p>Creates a new version of the specified grant.</p>",
    "CreateLicense": "<p>Creates a license.</p>",
    "CreateLicenseConfiguration": "<p>Creates a license configuration.</p> <p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these),

```

license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used.</p>

"CreateLicenseConversionTaskForResource": "<p>Creates a new license conversion task.</p>",

"CreateLicenseManagerReportGenerator": "<p>Creates a report generator.</p>",

"CreateLicenseVersion": "<p>Creates a new version of the specified license.</p>",

"CreateToken": "<p>Creates a long-lived token.</p> <p>A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license.</p>",

"DeleteGrant": "<p>Deletes the specified grant.</p>",

"DeleteLicense": "<p>Deletes the specified license.</p>",

"DeleteLicenseConfiguration": "<p>Deletes the specified license configuration.</p> <p>You cannot delete a license configuration that is in use.</p>",

"DeleteLicenseManagerReportGenerator": "<p>Deletes the specified report generator.</p> <p>This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator.</p>",

"DeleteToken": "<p>Deletes the specified token. Must be called in the license home Region.</p>",

"ExtendLicenseConsumption": "<p>Extends the expiration date for license consumption.</p>",

"GetAccessToken": "<p>Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour.</p>",

"GetGrant": "<p>Gets detailed information about the specified grant.</p>",

"GetLicense": "<p>Gets detailed information about the specified license.</p>",

"GetLicenseConfiguration": "<p>Gets detailed information about the specified license configuration.</p>",

"GetLicenseConversionTask": "<p>Gets information about the specified license type conversion task.</p>",

"GetLicenseManagerReportGenerator": "<p>Gets information about the specified report generator.</p>",

"GetLicenseUsage": "<p>Gets detailed information about the usage of the specified license.</p>",

"GetServiceSettings": "<p>Gets the License Manager settings for the current Region.</p>",

"ListAssociationsForLicenseConfiguration": "<p>Lists the resource associations for the specified license configuration.</p> <p>Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules).</p>",

"ListDistributedGrants": "<p>Lists the grants distributed for the specified license.</p>",

"ListFailuresForLicenseConfigurationOperations": "<p>Lists the license configuration operations that failed.</p>",

"ListLicenseConfigurations": "<p>Lists the license configurations for your account.</p>",

"ListLicenseConversionTasks": "<p>Lists the license type conversion tasks for your account.</p>",

"ListLicenseManagerReportGenerators": "<p>Lists the report generators for your account.</p>",

"ListLicenseSpecificationsForResource": "<p>Describes the license configurations for the specified resource.</p>",

"ListLicenseVersions": "<p>Lists all versions of the specified license.</p>",

"ListLicenses": "<p>Lists the licenses for your account.</p>",

"ListReceivedGrants": "<p>Lists grants that are received but not accepted.</p>",

"ListReceivedLicenses": "<p>Lists received licenses.</p>",

"ListResourceInventory": "<p>Lists resources managed using Systems Manager inventory.</p>",

"ListTagsForResource": "<p>Lists the tags for the specified license configuration.</p>",

"ListTokens": "<p>Lists your tokens.</p>",

"ListUsageForLicenseConfiguration": "<p>Lists all

license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.

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"RejectGrant": "<p>Rejects the specified grant.</p>",
"TagResource": "<p>Adds the specified tags to the specified license configuration.</p>",
"UntagResource": "<p>Removes the specified tags from the specified license configuration.</p>",
"UpdateLicenseConfiguration": "<p>Modifies the attributes of an existing license configuration.</p>",
"UpdateLicenseManagerReportGenerator": "<p>Updates a report generator.</p> <p>After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated.</p>",
"UpdateLicenseSpecificationsForResource": "<p>Adds or removes the specified license configurations for the specified Amazon Web Services resource.</p> <p>You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource.</p>",
"UpdateServiceSettings": "<p>Updates License Manager settings for the current Region.</p>"
},
"shapes": {
  "AcceptGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "AcceptGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "AccessDeniedException": {
    "base": "<p>Access to resource denied.</p>",
    "refs": {
    }
  },
  "AllowedOperation": {
    "base": null,
    "refs": {
      "AllowedOperationList$member": null
    }
  },
  "AllowedOperationList": {
    "base": null,
    "refs": {
      "CreateGrantRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",
      "CreateGrantVersionRequest$AllowedOperations": "<p>Allowed operations for the grant.</p>",
      "Grant$GrantedOperations":
        "<p>Granted operations.</p>",
      "ReceivedMetadata$AllowedOperations": "<p>Allowed operations.</p>"
    }
  },
  "Arn": {
```

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"base": null,
"refs": {
  "AcceptGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
  "AcceptGrantResponse$GrantArn": "<p>Grant ARN.</p>",
  "ArnList$member": null,
  "CheckoutBorrowLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The
license must use the borrow consumption configuration.</p>",
  "CheckoutBorrowLicenseResponse$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
  "CreateGrantRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
  "CreateGrantResponse$GrantArn": "<p>Grant ARN.</p>",
  "CreateGrantVersionRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
  "CreateGrantVersionResponse$GrantArn": "<p>Grant ARN.</p>",
  "CreateLicenseConversionTaskForResourceRequest$ResourceArn":
"<p>Amazon Resource Name (ARN) of the resource you are converting the license type for.</p>",
  "CreateLicenseResponse$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
  "CreateLicenseVersionRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
  "CreateLicenseVersionResponse$LicenseArn": "<p>License ARN.</p>",
  "CreateTokenRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license. The ARN is mapped
to the aud claim of the JWT token.</p>",
  "DeleteGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
  "DeleteGrantResponse$GrantArn": "<p>Grant ARN.</p>",
  "DeleteLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
  "GetGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
  "GetLicenseRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
  "GetLicenseUsageRequest$LicenseArn":
"<p>Amazon Resource Name (ARN) of the license.</p>",
  "Grant$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
  "Grant$ParentArn": "<p>Parent ARN.</p>",
  "Grant$LicenseArn": "<p>License ARN.</p>",
  "Grant$GranteePrincipalArn": "<p>The grantee principal ARN.</p>",
  "GrantedLicense$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
  "License$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
  "ListLicenseVersionsRequest$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
  "PrincipalArnList$member": null,
  "RejectGrantRequest$GrantArn": "<p>Amazon Resource Name (ARN) of the grant.</p>",
  "RejectGrantResponse$GrantArn": "<p>Grant ARN.</p>"
}
},
"ArnList": {
  "base": null,
  "refs": {
    "CreateTokenRequest$RoleArns": "<p>Amazon Resource Name (ARN) of the IAM roles to embed in the
token. License Manager does not check whether the
roles are in use.</p>",
    "ListDistributedGrantsRequest$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",
    "ListLicensesRequest$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",
    "ListReceivedGrantsRequest$GrantArns": "<p>Amazon Resource Names (ARNs) of the grants.</p>",
    "ListReceivedLicensesRequest$LicenseArns": "<p>Amazon Resource Names (ARNs) of the licenses.</p>",

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"ReportContext$licenseConfigurationArns": "<p>Amazon Resource Name (ARN) of the license configuration
that this generator reports on.</p>",
"TokenData$RoleArns": "<p>Amazon Resource Names (ARN) of the roles included in the token.</p>"
}
},
"AuthorizationException": {
"base": "<p>The Amazon Web Services user account does not have permission to perform the action. Check the
IAM policy associated with this account.</p>",
"refs": {
}
},
"AutomatedDiscoveryInformation": {
"base": "<p>Describes automated
discovery.</p>",
"refs": {
"GetLicenseConfigurationResponse$AutomatedDiscoveryInformation": "<p>Automated discovery
information.</p>",
"LicenseConfiguration$AutomatedDiscoveryInformation": "<p>Automated discovery information.</p>"
}
},
"Boolean": {
"base": null,
"refs": {
"ExtendLicenseConsumptionRequest$DryRun": "<p>Checks whether you have the required permissions for the
action, without actually making the request. Provides an error response if you do not have the required
permissions.</p>",
"OrganizationConfiguration$EnableIntegration": "<p>Enables Organizations integration.</p>"
}
},
"BorrowConfiguration": {
"base": "<p>Details about a borrow configuration.</p>",
"refs": {
"ConsumptionConfiguration$BorrowConfiguration": "<p>Details about a borrow configuration.</p>"
}
},
"BoxBoolean": {
"base": null,
"refs": {
"BorrowConfiguration$AllowEarlyCheckIn":
"<p>Indicates whether early check-ins are allowed.</p>",
"CreateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>Indicates whether hard or soft license
enforcement is used. Exceeding a hard limit blocks the launch of new instances.</p>",
"CreateLicenseConfigurationRequest$DisassociateWhenNotFound": "<p>When true, disassociates a resource
when software is uninstalled.</p>",
"Entitlement$Overage": "<p>Indicates whether overages are allowed.</p>",
"Entitlement$AllowCheckIn": "<p>Indicates whether check-ins are allowed.</p>",
"GetLicenseConfigurationResponse$LicenseCountHardLimit": "<p>Sets the number of available licenses as a
hard limit.</p>",

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"GetLicenseConfigurationResponse\$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software is uninstalled.</p>",

"GetServiceSettingsResponse\$EnableCrossAccountsDiscovery": "<p>Indicates whether cross-account discovery is enabled.</p>",

"LicenseConfiguration\$LicenseCountHardLimit":

<p>Number of available licenses as a hard limit.</p>",

"LicenseConfiguration\$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software is uninstalled.</p>",

"UpdateLicenseConfigurationRequest\$LicenseCountHardLimit": "<p>New hard limit of the number of available licenses.</p>",

"UpdateLicenseConfigurationRequest\$DisassociateWhenNotFound": "<p>When true, disassociates a resource when software is uninstalled.</p>",

"UpdateServiceSettingsRequest\$EnableCrossAccountsDiscovery": "<p>Activates cross-account discovery.</p>"

}

},

"BoxInteger": {

"base": null,

"refs": {

"BorrowConfiguration\$MaxTimeToLiveInMinutes": "<p>Maximum time for the borrow configuration, in minutes.</p>",

"ListAssociationsForLicenseConfigurationRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$MaxResults":

<p>Maximum number of results to return in a single call.</p>",

"ListLicenseConfigurationsRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListLicenseConversionTasksRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListLicenseSpecificationsForResourceRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListResourceInventoryRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ListUsageForLicenseConfigurationRequest\$MaxResults": "<p>Maximum number of results to return in a single call.</p>",

"ProvisionalConfiguration\$MaxTimeToLiveInMinutes": "<p>Maximum time for the provisional configuration, in minutes.</p>"

}

},

"BoxLong": {

"base": null,

"refs": {

"ConsumedLicenseSummary\$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",

"CreateLicenseConfigurationRequest\$LicenseCount":

<p>Number of licenses managed by the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseCount": "<p>Number of available licenses.</p>",

"GetLicenseConfigurationResponse\$ConsumedLicenses": "<p>Number of licenses assigned to resources.</p>",

"LicenseConfiguration\$LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",

"LicenseConfiguration\$ConsumedLicenses": "<p>Number of licenses consumed. </p>",

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    "LicenseConfigurationUsage$ConsumedLicenses": "<p>Number of licenses consumed by the resource.</p>",
    "ManagedResourceSummary$AssociationCount": "<p>Number of resources associated with licenses.</p>",
    "UpdateLicenseConfigurationRequest$LicenseCount": "<p>New number of licenses managed by the license
configuration.</p>"
  }
},
"CheckInLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CheckInLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CheckoutBorrowLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CheckoutBorrowLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CheckoutLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"CheckoutLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"CheckoutType": {
  "base": null,
  "refs": {
    "CheckoutLicenseRequest$CheckoutType": "<p>Checkout type.</p>",
    "CheckoutLicenseResponse$CheckoutType": "<p>Checkout type.</p>"
  }
},
"ClientRequestToken": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you
provide to ensure the idempotency of the request.</p>",
  }
}

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    "UpdateLicenseManagerReportGeneratorRequest$ClientToken": "<p>Unique, case-sensitive identifier that you
provide to ensure the idempotency of the request.</p>"
  }
},
"ClientToken": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to
ensure the idempotency of the request.</p>",
    "CheckoutLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
    "CreateGrantRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
    "CreateGrantVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure
the idempotency of the request.</p>",
    "CreateLicenseRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure the
idempotency of the request.</p>",
    "CreateLicenseVersionRequest$ClientToken": "<p>Unique, case-sensitive identifier that you provide to ensure
the idempotency of the request.</p>",
    "CreateTokenRequest$ClientToken":
"<p>Idempotency token, valid for 10 minutes.</p>"
  }
},
"ConflictException": {
  "base": "<p>There was a conflict processing the request. Try your request again.</p>",
  "refs": {
  }
},
"ConsumedLicenseSummary": {
  "base": "<p>Details about license consumption.</p>",
  "refs": {
    "ConsumedLicenseSummaryList$member": null
  }
},
"ConsumedLicenseSummaryList": {
  "base": null,
  "refs": {
    "GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": "<p>Summaries of the licenses
consumed by resources.</p>",
    "LicenseConfiguration$ConsumedLicenseSummaryList": "<p>Summaries for licenses consumed by various
resources.</p>"
  }
},
"ConsumptionConfiguration": {
  "base": "<p>Details about a consumption configuration.</p>",
  "refs": {
    "CreateLicenseRequest$ConsumptionConfiguration": "<p>Configuration for consumption of the license.
Choose a provisional configuration

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for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage.</p>",

"CreateLicenseVersionRequest\$ConsumptionConfiguration": "<p>Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage.</p>",

"GrantedLicense\$ConsumptionConfiguration": "<p>Configuration for consumption of the license.</p>",

"License\$ConsumptionConfiguration": "<p>Configuration for consumption of the license.</p>"

```
}
},
"CreateGrantRequest": {
  "base": null,
  "refs": {
  }
},
"CreateGrantResponse": {
  "base": null,
  "refs": {
  }
},
"CreateGrantVersionRequest": {
  "base": null,
  "refs": {
  }
},
"CreateGrantVersionResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConfigurationRequest": {
  "base":
null,
  "refs": {
  }
},
"CreateLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConversionTaskForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"CreateLicenseConversionTaskForResourceResponse": {
  "base": null,
  "refs": {
```

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    }
  },
  "CreateLicenseManagerReportGeneratorRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseManagerReportGeneratorResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseVersionRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateLicenseVersionResponse": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenRequest": {
    "base": null,
    "refs": {
    }
  },
  "CreateTokenResponse":
  {
    "base": null,
    "refs": {
    }
  },
  "DateTime": {
    "base": null,
    "refs": {
      "AutomatedDiscoveryInformation$LastRunTime": "<p>Time that automated discovery last ran.</p>",
      "GetLicenseConversionTaskResponse$StartTime": "<p>Time at which the license type conversion task was

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started .</p>",
  "GetLicenseConversionTaskResponse$LicenseConversionTime": "<p>Amount of time to complete the license
type conversion.</p>",
  "GetLicenseConversionTaskResponse$EndTime": "<p>Time at which the license type conversion task was
completed.</p>",
  "LicenseConfigurationAssociation$AssociationTime": "<p>Time when the license configuration was associated
with the resource.</p>",
  "LicenseConfigurationUsage$AssociationTime": "<p>Time when the license configuration was initially
associated with the resource.</p>",
  "LicenseConversionTask$StartTime": "<p>The time the conversion task was started at.</p>",
  "LicenseConversionTask$LicenseConversionTime":
"<p>The time the usage operation value of the resource was changed.</p>",
  "LicenseConversionTask$EndTime": "<p>The time the conversion task was completed.</p>",
  "LicenseOperationFailure$FailureTime": "<p>Failure time.</p>"
}
},
"DatetimeRange": {
  "base": "<p>Describes a time range, in ISO8601-UTC format.</p>",
  "refs": {
    "CreateLicenseRequest$Validity": "<p>Date and time range during which the license is valid, in ISO8601-UTC
format.</p>",
    "CreateLicenseVersionRequest$Validity": "<p>Date and time range during which the license is valid, in
ISO8601-UTC format.</p>",
    "GrantedLicense$Validity": "<p>Date and time range during which the granted license is valid, in ISO8601-
UTC format.</p>",
    "License$Validity": "<p>Date and time range during which the license is valid, in ISO8601-UTC format.</p>"
  }
},
"DeleteGrantRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteGrantResponse": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
}

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},
"DeleteLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"DeleteTokenRequest": {
  "base": null,
  "refs": {
  }
},
"DeleteTokenResponse": {
  "base": null,
  "refs": {
  }
},
"DigitalSignatureMethod": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$DigitalSignatureMethod": "<p>Digital signature method. The possible value
is JSON Web Signature (JWS)
algorithm PS384. For more information, see <a href=\"https://tools.ietf.org/html/rfc7518#section-3.5\">RFC 7518
Digital Signature with RSASSA-PSS</a>.</p>"
  }
},
"Entitlement": {
  "base": "<p>Describes a resource entitled for use with a license.</p>",
  "refs": {
    "EntitlementList$member": null
  }
},
"EntitlementData": {
  "base": "<p>Data associated with an entitlement resource.</p>",

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"refs": {
  "EntitlementDataList$member": null
}
},
"EntitlementDataList": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$Entitlements": "<p>License entitlements. Partial checkouts are not supported.</p>",
    "CheckoutBorrowLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>",
    "CheckoutLicenseRequest$Entitlements": "<p>License entitlements.</p>",
    "CheckoutLicenseResponse$EntitlementsAllowed": "<p>Allowed license entitlements.</p>"
  }
},
"EntitlementDataUnit":
{
  "base": null,
  "refs": {
    "EntitlementData$Unit": "<p>Entitlement data unit.</p>",
    "EntitlementUsage$Unit": "<p>Entitlement usage unit.</p>"
  }
},
"EntitlementList": {
  "base": null,
  "refs": {
    "CreateLicenseRequest$Entitlements": "<p>License entitlements.</p>",
    "CreateLicenseVersionRequest$Entitlements": "<p>License entitlements.</p>",
    "GrantedLicense$Entitlements": "<p>License entitlements.</p>",
    "License$Entitlements": "<p>License entitlements.</p>"
  }
},
"EntitlementNotAllowedException": {
  "base": "<p>The entitlement is not allowed.</p>",
  "refs": {
  }
},
"EntitlementUnit": {
  "base": null,
  "refs": {
    "Entitlement$Unit": "<p>Entitlement unit.</p>"
  }
},
"EntitlementUsage": {
  "base": "<p>Usage associated with an entitlement resource.</p>",
  "refs": {
    "EntitlementUsageList$member": null
  }
},

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"EntitlementUsageList": {
  "base": null,
  "refs": {
    "LicenseUsage$EntitlementUsages": "<p>License entitlement usages.</p>"
  }
},
"ExtendLicenseConsumptionRequest": {
  "base": null,
  "refs": {
  }
},
"ExtendLicenseConsumptionResponse": {
  "base": null,
  "refs": {
  }
},
"FailedDependencyException": {
  "base": "<p>A dependency required to run the API is missing.</p>",
  "refs": {
  }
},
"Filter": {
  "base": "<p>A filter name and value pair that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
  "refs": {
    "FilterList$member": null,
    "Filters$member": null
  }
},
"FilterLimitExceededException": {
  "base": "<p>The request uses too many filters or too many filter values.</p>",
  "refs": {
  }
},
"FilterList": {
  "base": null,
  "refs": {
    "ListDistributedGrantsRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p> <code>LicenseArn</code> </p> </li> <li> <p> <code>GrantStatus</code> </p> </li> <li> <p> <code>GranteePrincipalARN</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>LicenseIssuerName</code> </p> </li> </ul>",
    "ListLicenseManagerReportGeneratorsRequest$Filters": "<p>Filters to scope the results. The following filters are supported: </p> <ul> <li> <p> <code>LicenseConfigurationArn</code> </p> </li> </ul>",
    "ListLicensesRequest$Filters": "<p>Filters to scope the results. The following filters are supported:</p> <ul> <li> <p> <code>Beneficiary</code> </p> </li> <li> <p> <code>ProductSKU</code> </p> </li> <li> <p> <code>Fingerprint</code> </p> </li> <li> <p> <code>Status</code> </p> </li> </ul>",
    "ListReceivedGrantsRequest$Filters": "<p>Filters to scope the results. The

```

following filters are supported:

- `ProductSKU`
- `LicenseIssuerName`
- `LicenseArn`
- `GrantStatus`
- `GranterAccountId`

"ListReceivedLicensesRequest\$Filters": "Filters to scope the results. The following filters are supported:

- `ProductSKU`
- `Status`
- `Fingerprint`
- `IssuerName`
- `Beneficiary`

"ListTokensRequest\$Filters": "Filters to scope the results. The following filter is supported:

- `LicenseArns`

}

},

"FilterName": {

"base": null,

"refs": {

"Filter\$Name": "Name of the filter. Filter names are case-sensitive."

}

},

"FilterValue": {

"base": null,

"refs": {

"FilterValues\$member": null

}

},

"FilterValues": {

"base": null,

"refs": {

"Filter\$Values": "Filter values. Filter values are case-sensitive."

}

},

"Filters": {

"base": null,

"refs": {

"ListLicenseConfigurationsRequest\$Filters": "Filters to scope the results. The following filters and logical operators are supported:

- `licenseCountingType` - The dimension for which licenses are counted. Possible values are `vCPU` | `Instance` | `Core` | `Socket`. Logical operators are `EQUALS` | `NOT_EQUALS`.
- `enforceLicenseCount` - A Boolean value that indicates whether hard license enforcement is used. Logical operators are `EQUALS` | `NOT_EQUALS`.
- `usagelimitExceeded` - A Boolean value that indicates whether the available licenses have been exceeded. Logical operators are `EQUALS` | `NOT_EQUALS`.

"ListLicenseConversionTasksRequest\$Filters": "Filters to scope the results. Valid filters are `ResourceArns` and `Status`.

"ListUsageForLicenseConfigurationRequest\$Filters": "Filters to scope the results. The following filters and logical operators are supported:

- `resourceArn` - The ARN of the license configuration resource. Logical operators are `EQUALS` | `NOT_EQUALS`.
- `resourceType` - The resource type (`EC2_INSTANCE` |

`EC2_HOST` | `EC2_AMI` | `SYSTEMS_MANAGER_MANAGED_INSTANCE`). Logical operators are `EQUALS` | `NOT_EQUALS`.

- `resourceAccount` - The ID of the account that owns the resource. Logical operators are `EQUALS` | `NOT_EQUALS`.

```
}
},
"GetAccessTokenRequest": {
  "base": null,
  "refs": {
  }
},
"GetAccessTokenResponse": {
  "base": null,
  "refs": {
  }
},
"GetGrantRequest": {
  "base": null,
  "refs": {
  }
},
"GetGrantResponse": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConversionTaskRequest": {
  "base": null,
  "refs": {
  }
},
"GetLicenseConversionTaskResponse": {
  "base": null,
  "refs": {
  }
},
"GetLicenseManagerReportGeneratorRequest": {
```

```

    "base": null,
    "refs": {
    }
  },
  "GetLicenseManagerReportGeneratorResponse": {
    "base": null,
    "refs": {
    }
  },
  "GetLicenseRequest": {
    "base": null,

"refs": {
  }
},
"GetLicenseResponse": {
  "base": null,
  "refs": {
  }
},
"GetLicenseUsageRequest": {
  "base": null,
  "refs": {
  }
},
"GetLicenseUsageResponse": {
  "base": null,
  "refs": {
  }
},
"GetServiceSettingsRequest": {
  "base": null,
  "refs": {
  }
},
"GetServiceSettingsResponse": {
  "base": null,
  "refs": {
  }
},
"Grant": {
  "base": "<p>Describes a grant.</p>",
  "refs": {
    "GetGrantResponse$Grant": "<p>Grant details.</p>",
    "GrantList$member": null
  }
},
"GrantList": {

```

```

"base": null,
"refs": {
  "ListDistributedGrantsResponse$Grants": "<p>Distributed grant details.</p>",
  "ListReceivedGrantsResponse$Grants": "<p>Received grant details.</p>"
}
},
"GrantStatus": {
  "base": null,
  "refs": {
    "AcceptGrantResponse$Status": "<p>Grant status.</p>",
    "CreateGrantResponse$Status":
"<p>Grant status.</p>",
    "CreateGrantVersionRequest$Status": "<p>Grant status.</p>",
    "CreateGrantVersionResponse$Status": "<p>Grant status.</p>",
    "DeleteGrantResponse$Status": "<p>Grant status.</p>",
    "Grant$GrantStatus": "<p>Grant status.</p>",
    "RejectGrantResponse$Status": "<p>Grant status.</p>"
  }
},
"GrantedLicense": {
  "base": "<p>Describes a license that is granted to a grantee.</p>",
  "refs": {
    "GrantedLicenseList$member": null
  }
},
"GrantedLicenseList": {
  "base": null,
  "refs": {
    "ListReceivedLicensesResponse$Licenses": "<p>Received license details.</p>"
  }
},
"ISO8601DateTime": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
    "CheckoutBorrowLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",
    "CheckoutLicenseResponse$IssuedAt": "<p>Date and time at which the license checkout is issued.</p>",
    "CheckoutLicenseResponse$Expiration": "<p>Date and time at which the license checkout expires.</p>",
    "DatetimeRange$Begin": "<p>Start of the time range.</p>",
    "DatetimeRange$End": "<p>End of the time range.</p>",
    "DeleteLicenseResponse$DeletionDate": "<p>Date when the license is deleted.</p>",
    "ExtendLicenseConsumptionResponse$Expiration": "<p>Date and time at which the license consumption expires.</p>",
    "GrantedLicense$CreateTime": "<p>Creation time of the granted license.</p>",
    "License$CreateTime": "<p>License creation time.</p>"
  }
}

```

```

    "TokenData$ExpirationTime": "<p>Token expiration time, in ISO8601-UTC format.</p>"
  }
},
"Integer": {
  "base": null,
  "refs": {
    "CreateTokenRequest$ExpirationInDays": "<p>Token expiration, in days, counted from token creation. The
default is 365 days.</p>",

    "ReportFrequency$value": "<p>Number of times within the frequency period that a report is generated. The only
supported value is <code>1</code>.</p>"
  }
},
"InvalidParameterValueException": {
  "base": "<p>One or more parameter values are not valid.</p>",
  "refs": {
  }
},
"InvalidResourceStateException": {
  "base": "<p>License Manager cannot allocate a license to a resource because of its state. </p> <p>For example,
you cannot allocate a license to an instance in the process of shutting down.</p>",
  "refs": {
  }
},
"InventoryFilter": {
  "base": "<p>An inventory filter.</p>",
  "refs": {
    "InventoryFilterList$member": null
  }
},
"InventoryFilterCondition": {
  "base": null,
  "refs": {
    "InventoryFilter$Condition": "<p>Condition of the filter.</p>"
  }
},
"InventoryFilterList": {
  "base": null,
  "refs": {
    "ListResourceInventoryRequest$Filters": "<p>Filters
to scope the results. The following filters and logical operators are supported:</p> <ul> <li> <p>
<code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators
are <code>EQUALS</code> | <code>NOT_EQUALS</code>.</p> </li> <li> <p>
<code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> |
<code>BEGINS_WITH</code>.</p> </li> <li> <p> <code>license_included</code> - The type of license
included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are
<code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> |
<code>windows-server-datacenter</code>.</p> </li> <li> <p> <code>platform</code> - The platform of the

```

resource. Logical operators are `EQUALS` | `BEGINS_WITH`.

- `resource_id` - The ID of the resource. Logical operators are `EQUALS` | `NOT_EQUALS`.
- `tag:key` - The key/value combination of a tag assigned to the resource. Logical operators are `EQUALS` (single account) or `EQUALS` | `NOT_EQUALS` (cross account).

```

    }
  },
  "Issuer": {
    "base": "<p>Details about the issuer of a license.</p>",
    "refs": {
      "CreateLicenseRequest$Issuer": "<p>License issuer.</p>",
      "CreateLicenseVersionRequest$Issuer": "<p>License issuer.</p>"
    }
  },
  "IssuerDetails": {
    "base": "<p>Details associated with the issuer of a license.</p>",
    "refs": {
      "GrantedLicense$Issuer": "<p>Granted license issuer.</p>",
      "License$Issuer": "<p>License issuer.</p>"
    }
  },
  "License": {
    "base": "<p>Software license that is managed in License Manager.</p>",
    "refs": {
      "GetLicenseResponse$License": "<p>License details.</p>",
      "LicenseList$member": null
    }
  },
  "LicenseConfiguration": {
    "base": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used.</p>",
    "refs": {
      "LicenseConfigurations$member": null
    }
  },
  "LicenseConfigurationAssociation": {
    "base": "<p>Describes an association with a license configuration.</p>",
    "refs": {
      "LicenseConfigurationAssociations$member": null
    }
  },
  "LicenseConfigurationAssociations": {
    "base": null,
    "refs": {

```

"ListAssociationsForLicenseConfigurationResponse\$LicenseConfigurationAssociations": "<p>Information about the associations for the license configuration.</p>"

```
}
},
"LicenseConfigurationStatus": {
  "base": null,
  "refs": {
    "UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": "<p>New status of the license configuration.</p>"
  }
},
"LicenseConfigurationUsage": {
  "base": "<p>Details about the usage of a resource associated with a license configuration.</p>",
  "refs": {
    "LicenseConfigurationUsageList$member": null
  }
},
"LicenseConfigurationUsageList": {
  "base": null,
  "refs": {
    "ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": "<p>Information about the license configurations.</p>"
  }
},
"LicenseConfigurations": {
  "base": null,
  "refs": {
    "ListLicenseConfigurationsResponse$LicenseConfigurations": "<p>Information about the license configurations.</p>"
  }
},
"LicenseConversionContext": {
  "base": "<p>Information about a license type conversion task.</p>",
  "refs": {
    "CreateLicenseConversionTaskForResourceRequest$SourceLicenseContext": "<p>Information that identifies the license type you are converting from. For the structure of the source license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS CLI</a> in the <i>License Manager User Guide</i>.</p>",
    "CreateLicenseConversionTaskForResourceRequest$DestinationLicenseContext": "<p>Information that identifies the license type you are converting to. For the structure of the destination license, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/conversion-procedures.html#conversion-cli\">Convert a license type using the AWS CLI</a> in the <i>License Manager User Guide</i>.</p>",
    "GetLicenseConversionTaskResponse$SourceLicenseContext": "<p>Information about the license type converted from.</p>",
    "GetLicenseConversionTaskResponse$DestinationLicenseContext":
      "<p>Information about the license type converted to.</p>",
    "LicenseConversionTask$SourceLicenseContext": "<p>Information about the license type this conversion task
```

```

converted from.</p>",
  "LicenseConversionTask$DestinationLicenseContext": "<p>Information about the license type this conversion
task converted to.</p>"
}
},
"LicenseConversionTask": {
  "base": "<p>Information about a license type conversion task.</p>",
  "refs": {
    "LicenseConversionTasks$member": null
  }
},
"LicenseConversionTaskId": {
  "base": null,
  "refs": {
    "CreateLicenseConversionTaskForResourceResponse$LicenseConversionTaskId": "<p>The ID of the created
license type conversion task.</p>",
    "GetLicenseConversionTaskRequest$LicenseConversionTaskId": "<p>ID of the license type conversion task to
retrieve information on.</p>",
    "GetLicenseConversionTaskResponse$LicenseConversionTaskId": "<p>ID of the license type conversion
task.</p>",
    "LicenseConversionTask$LicenseConversionTaskId": "<p>The ID of the license type conversion task.</p>"
  }
},
"LicenseConversionTaskStatus": {
  "base": null,
  "refs": {
    "GetLicenseConversionTaskResponse$Status": "<p>Status of the license type conversion task.</p>",
    "LicenseConversionTask$Status": "<p>The status of the conversion task.</p>"
  }
},
"LicenseConversionTasks": {
  "base": null,
  "refs": {
    "ListLicenseConversionTasksResponse$LicenseConversionTasks": "<p>Information about the license
configuration tasks for your account.</p>"
  }
},
"LicenseCountingType": {
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$LicenseCountingType": "<p>Dimension used to track the license
inventory.</p>",
    "GetLicenseConfigurationResponse$LicenseCountingType": "<p>Dimension for which the licenses are
counted.</p>",
    "LicenseConfiguration$LicenseCountingType":
"<p>Dimension to use to track the license inventory.</p>"
  }
},

```

```

"LicenseDeletionStatus": {
  "base": null,
  "refs": {
    "DeleteLicenseResponse$Status": "<p>License status.</p>"
  }
},
"LicenseList": {
  "base": null,
  "refs": {
    "ListLicenseVersionsResponse$Licenses": "<p>License details.</p>",
    "ListLicensesResponse$Licenses": "<p>License details.</p>"
  }
},
"LicenseOperationFailure": {
  "base": "<p>Describes the failure of a license operation.</p>",
  "refs": {
    "LicenseOperationFailureList$member": null
  }
},
"LicenseOperationFailureList": {
  "base": null,
  "refs": {
    "ListFailuresForLicenseConfigurationOperationsResponse$LicenseOperationFailureList": "<p>License
configuration operations that failed.</p>"
  }
},
"LicenseSpecification": {
  "base": "<p>Details for associating a license configuration with a resource.</p>",
  "refs": {
    "LicenseSpecifications$member": null
  }
},
"LicenseSpecifications": {
  "base": null,
  "refs": {
    "ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": "<p>License configurations
associated with a resource.</p>",
    "UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": "<p>ARNs of the license
configurations to add.</p>",
    "UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": "<p>ARNs of the license
configurations to remove.</p>"
  }
},
"LicenseStatus": {
  "base": null,
  "refs": {
    "CreateLicenseResponse$Status": "<p>License status.</p>",

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    "CreateLicenseVersionRequest$Status": "<p>License status.</p>",
    "CreateLicenseVersionResponse$Status": "<p>License status.</p>",
    "GrantedLicense$Status": "<p>Granted license status.</p>",
    "License$Status": "<p>License status.</p>"
  }
},
"LicenseUsage": {
  "base": "<p>Describes
the entitlement usage associated with a license.</p>",
  "refs": {
    "GetLicenseUsageResponse$LicenseUsage": "<p>License usage details.</p>"
  }
},
"LicenseUsageException": {
  "base": "<p>You do not have enough licenses available to support a new resource launch.</p>",
  "refs": {
  }
},
"ListAssociationsForLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"ListAssociationsForLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"ListDistributedGrantsRequest": {
  "base": null,
  "refs": {
  }
},
"ListDistributedGrantsResponse": {
  "base": null,
  "refs": {
  }
},
"ListFailuresForLicenseConfigurationOperationsRequest": {
  "base": null,
  "refs": {
  }
},
"ListFailuresForLicenseConfigurationOperationsResponse": {
  "base": null,
  "refs": {
  }
},

```

```
"ListLicenseConfigurationsRequest": {  
  
  "base": null,  
  "refs": {  
  }  
},  
"ListLicenseConfigurationsResponse": {  
  "base": null,  
  "refs": {  
  }  
},  
"ListLicenseConversionTasksRequest": {  
  "base": null,  
  "refs": {  
  }  
},  
"ListLicenseConversionTasksResponse": {  
  "base": null,  
  "refs": {  
  }  
},  
"ListLicenseManagerReportGeneratorsRequest": {  
  "base": null,  
  "refs": {  
  }  
},  
"ListLicenseManagerReportGeneratorsResponse": {  
  "base": null,  
  "refs": {  
  }  
},  
"ListLicenseSpecificationsForResourceRequest": {  
  "base": null,  
  "refs": {  
  }  
},  
"ListLicenseSpecificationsForResourceResponse": {  
  "base": null,  
  "refs": {  
  }  
},  
"ListLicenseVersionsRequest": {  
  "base": null,  
  "refs": {  
  }  
},  
"ListLicenseVersionsResponse": {  
  "base": null,  

```

```
"refs": {
}
},
"ListLicensesRequest": {
  "base": null,
  "refs": {
  }
},
"ListLicensesResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedGrantsResponse": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesRequest": {
  "base": null,
  "refs": {
  }
},
"ListReceivedLicensesResponse": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryRequest": {
  "base": null,
  "refs": {
  }
},
"ListResourceInventoryResponse": {
  "base": null,
  "refs": {
  }
},
"ListTagsForResourceRequest": {
  "base": null,
  "refs": {
  }
},
},
```

```

"ListTagsForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"ListTokensRequest": {
  "base": null,
  "refs": {
  }
},
"ListTokensResponse": {
  "base": null,
  "refs": {
  }
},
"ListUsageForLicenseConfigurationRequest": {
  "base":
null,
  "refs": {
  }
},
"ListUsageForLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"Location": {
  "base": null,
  "refs": {
    "RedirectException$Location": null
  }
},
"Long": {
  "base": null,
  "refs": {
    "Entitlement$MaxCount": "<p>Maximum entitlement count. Use if the unit is not None.</p>"
  }
},
"ManagedResourceSummary": {
  "base": "<p>Summary information about a managed resource.</p>",
  "refs": {
    "ManagedResourceSummaryList$member": null
  }
},
"ManagedResourceSummaryList": {
  "base": null,
  "refs": {
    "GetLicenseConfigurationResponse$ManagedResourceSummaryList": "<p>Summaries of the managed

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resources.</p>",
  "LicenseConfiguration$ManagedResourceSummaryList": "<p>Summaries for managed resources.</p>"
}
},
"MaxSize100": {
  "base": null,
  "refs": {
    "ListDistributedGrantsRequest$MaxResults":
"<p>Maximum number of results to return in a single call.</p>",
    "ListLicenseManagerReportGeneratorsRequest$MaxResults": "<p>Maximum number of results to return in a
single call.</p>",
    "ListLicenseVersionsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
    "ListLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
    "ListReceivedGrantsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
    "ListReceivedLicensesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
    "ListTokensRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
  }
},
"MaxSize3StringList": {
  "base": null,
  "refs": {
    "CreateTokenRequest$TokenProperties": "<p>Data specified by the caller to be included in the JWT token. The
data is mapped to the amr claim of the JWT token.</p>",
    "GetAccessTokenRequest$TokenProperties": "<p>Token properties to validate against those present in the
JWT token.</p>",
    "TokenData$TokenProperties": "<p>Data specified by the caller.</p>"
  }
},
"Message": {
  "base": null,
  "refs": {
    "AccessDeniedException$Message": null,
    "AuthorizationException$Message": null,
    "ConflictException$Message": null,
    "EntitlementNotAllowedException$Message": null,
    "FailedDependencyException$Message": null,
    "FilterLimitExceededException$Message": null,
    "InvalidParameterValueException$Message": null,
    "InvalidResourceStateException$Message": null,
    "LicenseUsageException$Message": null,
    "NoEntitlementsAllowedException$Message": null,
    "RateLimitExceededException$Message": null,
    "RedirectException$Message": null,
    "ResourceLimitExceededException$Message": null,
    "ResourceNotFoundException$Message": null,
    "ServerInternalException$Message":
null,
    "UnsupportedDigitalSignatureMethodException$Message": null,

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    "ValidationException$Message": null
  }
},
"Metadata": {
  "base": "<p>Describes key/value pairs.</p>",
  "refs": {
    "MetadataList$member": null
  }
},
"MetadataList": {
  "base": null,
  "refs": {
    "CheckoutBorrowLicenseRequest$CheckoutMetadata": "<p>Information about constraints.</p>",
    "CheckoutBorrowLicenseResponse$CheckoutMetadata": "<p>Information about constraints.</p>",
    "CreateLicenseRequest$LicenseMetadata": "<p>Information about the license.</p>",
    "CreateLicenseVersionRequest$LicenseMetadata": "<p>Information about the license.</p>",
    "GrantedLicense$LicenseMetadata": "<p>Granted license metadata.</p>",
    "License$LicenseMetadata": "<p>License metadata.</p>",
    "LicenseOperationFailure$MetadataList": "<p>Reserved.</p>"
  }
},
"NoEntitlementsAllowedException":
{
  "base": "<p>There are no entitlements found for this license, or the entitlement maximum count is reached.</p>",
  "refs": {
  }
},
"OrganizationConfiguration": {
  "base": "<p>Configuration information for Organizations.</p>",
  "refs": {
    "GetServiceSettingsResponse$OrganizationConfiguration": "<p>Indicates whether Organizations is integrated with License Manager for cross-account discovery.</p>",
    "UpdateServiceSettingsRequest$OrganizationConfiguration": "<p>Enables integration with Organizations for cross-account discovery.</p>"
  }
},
"PrincipalArnList": {
  "base": null,
  "refs": {
    "CreateGrantRequest$Principals": "<p>The grant principals.</p>"
  }
},
"ProductInformation": {
  "base": "<p>Describes product information for a license configuration.</p>",
  "refs": {
    "ProductInformationList$member": null
  }
},

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"ProductInformationFilter": {
  "base": "<p>Describes
product information filters.</p>",
  "refs": {
    "ProductInformationFilterList$member": null
  }
},
"ProductInformationFilterList": {
  "base": null,
  "refs": {
    "ProductInformation$ProductInformationFilterList": "<p>A Product information filter consists of a
<code>ProductInformationFilterComparator</code> which is a logical operator, a
<code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a
<code>ProductInformationFilterValue</code> that specifies the value to filter on. </p> <p>Accepted values for
<code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for
<code>ProductInformationFilterComparator</code>. </p> <p>The following filters and are supported when the
resource type is <code>SSM_MANAGED</code>:</p> <ul> <li> <p> <code>Application Name</code> - The
name of the application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Application
Publisher</code>
- The publisher of the application. Logical operator is <code>EQUALS</code>.</p> </li> <li> <p>
<code>Application Version</code> - The version of the application. Logical operator is
<code>EQUALS</code>.</p> </li> <li> <p> <code>Platform Name</code> - The name of the platform. Logical
operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Platform Type</code> - The platform type.
Logical operator is <code>EQUALS</code>.</p> </li> <li> <p> <code>Tag:key</code> - The key of a tag
attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is
<code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the
example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you
are not using values for the key. </p> </li> <li> <p> <code>AccountId</code> - The 12-digit ID of an Amazon
Web Services account you wish to exclude from automated discovery. Logical operator
is <code>NOT_EQUALS</code>.</p> </li> <li> <p> <code>License Included</code> - The type of license
included. Logical operators are <code>EQUALS</code> and <code>NOT_EQUALS</code>. Possible values are:
<code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> |
<code>windows-server-datacenter</code>.</p> </li> </ul> <p>The following filters and logical operators are
supported when the resource type is <code>RDS</code>:</p> <ul> <li> <p> <code>Engine Edition</code> - The
edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values are: <code>oracle-
ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code>.</p> </li> <li> <p>
<code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are:
<code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> |
<code>ols</code> | <code>olap</code>.</p> </li> </ul>"
  }
},
"ProductInformationList": {
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$ProductInformationList": "<p>Product information.</p>",
    "GetLicenseConfigurationResponse$ProductInformationList": "<p>Product information.</p>",
    "LicenseConfiguration$ProductInformationList": "<p>Product information.</p>",
    "UpdateLicenseConfigurationRequest$ProductInformationList": "<p>New product information.</p>"
  }
}

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    }
  },
  "ProvisionalConfiguration": {
    "base": "<p>Details about a provisional configuration.</p>",
    "refs": {
      "ConsumptionConfiguration$ProvisionalConfiguration": "<p>Details about a provisional configuration.</p>"
    }
  },
  "RateLimitExceededException": {
    "base": "<p>Too many requests have been submitted. Try again after a brief wait.</p>",
    "refs": {
    }
  },
  "ReceivedMetadata": {
    "base": "<p>Metadata associated with received licenses and grants.</p>",
    "refs": {
      "GrantedLicense$ReceivedMetadata": "<p>Granted license received metadata.</p>"
    }
  },
  "ReceivedStatus": {
    "base": null,
    "refs": {
      "ReceivedMetadata$ReceivedStatus": "<p>Received status.</p>"
    }
  },
  "RedirectException": {
    "base": "<p>This is not the correct Region for the resource. Try again.</p>",
    "refs": {
    }
  },
  "RejectGrantRequest": {
    "base": null,
    "refs": {
    }
  },
  "RejectGrantResponse": {
    "base": null,
    "refs": {
    }
  },
  "RenewType": {
    "base": null,
    "refs": {
      "ConsumptionConfiguration$RenewType": "<p>Renewal frequency.</p>"
    }
  },
  "ReportContext": {
    "base": "<p>Details of the license configuration that this generator reports on.</p>",

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"refs": {
  "CreateLicenseManagerReportGeneratorRequest$ReportContext": "<p>Defines the type of license
configuration the report generator tracks.</p>",
  "ReportGenerator$ReportContext":
"<p>License configuration type for this generator.</p>",
  "UpdateLicenseManagerReportGeneratorRequest$ReportContext": "<p>The report context.</p>"
}
},
"ReportFrequency": {
  "base": "<p>Details about how frequently reports are generated.</p>",
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are
generated. Reports can be generated daily, monthly, or weekly.</p>",
    "ReportGenerator$ReportFrequency": "<p>Details about how frequently reports are generated.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ReportFrequency": "<p>Frequency by which reports are
generated.</p>"
  }
},
"ReportFrequencyType": {
  "base": null,
  "refs": {
    "ReportFrequency$period": "<p>Time period between each report. The period can be daily, weekly, or
monthly.</p>"
  }
},
"ReportGenerator": {
  "base": "<p>Describe the details of a report generator.</p>",
  "refs": {
    "GetLicenseManagerReportGeneratorResponse$ReportGenerator": "<p>A report generator that creates periodic
reports about your license configurations.</p>",
    "ReportGeneratorList$member": null
  }
},
"ReportGeneratorList": {
  "base": null,
  "refs": {
    "ListLicenseManagerReportGeneratorsResponse$ReportGenerators": "<p>A report generator that creates
periodic reports about your license configurations.</p>"
  }
},
"ReportGeneratorName": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$ReportGeneratorName": "<p>Name of the report
generator.</p>"
  }
}

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},
"ReportType": {
  "base": null,
  "refs": {
    "ReportTypeList$member": null
  }
},
"ReportTypeList": {
  "base": null,
  "refs": {
    "CreateLicenseManagerReportGeneratorRequest$Type":
    "<p>Type of reports to generate. The following report types an be generated:</p> <ul> <li> <p>License
configuration report - Reports the number and details of consumed licenses for a license configuration.</p> </li>
<li> <p>Resource report - Reports the tracked licenses and resource consumption for a license configuration.</p>
</li> </ul>",
    "ReportGenerator$ReportType": "<p>Type of reports that are generated.</p>",
    "UpdateLicenseManagerReportGeneratorRequest$Type": "<p>Type of reports to generate. The following
report types are supported:</p> <ul> <li> <p>License configuration report - Reports the number and details of
consumed licenses for a license configuration.</p> </li> <li> <p>Resource report - Reports the tracked licenses and
resource consumption for a license configuration.</p> </li> </ul>"
  }
},
"ResourceInventory": {
  "base": "<p>Details about a resource.</p>",
  "refs": {
    "ResourceInventoryList$member": null
  }
},
"ResourceInventoryList": {
  "base": null,
  "refs": {
    "ListResourceInventoryResponse$ResourceInventoryList": "<p>Information about the resources.</p>"
  }
},
"ResourceLimitExceededException": {
  "base": "<p>Your resource limits have been exceeded.</p>",
  "refs": {
  }
},
"ResourceNotFoundException": {
  "base": "<p>The resource cannot be found.</p>",
  "refs": {
  }
},
"ResourceType": {
  "base": null,
  "refs": {
    "ConsumedLicenseSummary$ResourceType": "<p>Resource type of the resource consuming a license.</p>",

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"LicenseConfigurationAssociation$ResourceType": "<p>Type of server resource.</p>",
"LicenseConfigurationUsage$ResourceType": "<p>Type of resource.</p>",
"LicenseOperationFailure$ResourceType": "<p>Resource type.</p>",
"ManagedResourceSummary$ResourceType": "<p>Type of resource associated with a license.</p>",
"ResourceInventory$ResourceType":
"<p>Type of resource.</p>"
}
},
"S3Location": {
"base": "<p>Details of the S3 bucket that report generator reports are published to.</p>",
"refs": {
"ReportGenerator$S3Location": "<p>Details of the S3 bucket that report generator reports are published
to.</p>"
}
},
"ServerInternalException": {
"base": "<p>The server experienced an internal error. Try again.</p>",
"refs": {
}
},
"SignedToken": {
"base": null,
"refs": {
"CheckoutBorrowLicenseResponse$SignedToken": "<p>Signed token.</p>",
"CheckoutLicenseResponse$SignedToken": "<p>Signed token.</p>"
}
},
"StatusReasonMessage": {
"base": null,
"refs": {
"CreateGrantVersionRequest$StatusReason": "<p>Grant status reason.</p>",
>DeleteGrantRequest$StatusReason": "<p>The Status reason for the delete request.</p>",
"Grant$StatusReason": "<p>Grant status reason.</p>",
"ReceivedMetadata$ReceivedStatusReason":
"<p>Received status reason.</p>"
}
},
"String": {
"base": null,
"refs": {
"AcceptGrantResponse$Version": "<p>Grant version.</p>",
"CheckInLicenseRequest$LicenseConsumptionToken": "<p>License consumption token.</p>",
"CheckInLicenseRequest$Beneficiary": "<p>License beneficiary.</p>",
"CheckoutBorrowLicenseRequest$NodeId": "<p>Node ID.</p>",
"CheckoutBorrowLicenseResponse$LicenseConsumptionToken": "<p>License consumption token.</p>",
"CheckoutBorrowLicenseResponse$NodeId": "<p>Node ID.</p>",
"CheckoutLicenseRequest$ProductSKU": "<p>Product SKU.</p>",
"CheckoutLicenseRequest$KeyFingerprint": "<p>Key fingerprint identifying the license.</p>",

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"CheckoutLicenseRequest\$Beneficiary": "<p>License beneficiary.</p>",

"CheckoutLicenseRequest\$NodeId": "<p>Node ID.</p>",

"CheckoutLicenseResponse\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"CheckoutLicenseResponse\$NodeId": "<p>Node ID.</p>",

"CheckoutLicenseResponse\$LicenseArn": "<p>Amazon Resource Name (ARN) of the checkout license.</p>",

"CreateGrantRequest\$GrantName": "<p>Grant name.</p>",

"CreateGrantRequest\$HomeRegion": "<p>Home Region of the grant.</p>",

"CreateGrantResponse\$Version": "<p>Grant version.</p>",

"CreateGrantVersionRequest\$GrantName": "<p>Grant name.</p>",

"CreateGrantVersionRequest\$SourceVersion": "<p>Current version of the grant.</p>",

"CreateGrantVersionResponse\$Version": "<p>New version of the grant.</p>",

"CreateLicenseConfigurationRequest\$Name": "<p>Name of the license configuration.</p>",

"CreateLicenseConfigurationRequest\$Description": "<p>Description of the license configuration.</p>",

"CreateLicenseConfigurationResponse\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"CreateLicenseManagerReportGeneratorRequest\$Description":

<p>Description of the report generator.</p>",

"CreateLicenseManagerReportGeneratorResponse\$LicenseManagerReportGeneratorArn": "<p>The Amazon Resource Name (ARN) of the new report generator.</p>",

"CreateLicenseRequest\$LicenseName": "<p>License name.</p>",

"CreateLicenseRequest\$ProductName": "<p>Product name.</p>",

"CreateLicenseRequest\$ProductSKU": "<p>Product SKU.</p>",

"CreateLicenseRequest\$HomeRegion": "<p>Home Region for the license.</p>",

"CreateLicenseRequest\$Beneficiary": "<p>License beneficiary.</p>",

"CreateLicenseResponse\$Version": "<p>License version.</p>",

"CreateLicenseVersionRequest\$LicenseName": "<p>License name.</p>",

"CreateLicenseVersionRequest\$ProductName": "<p>Product name.</p>",

"CreateLicenseVersionRequest\$HomeRegion": "<p>Home Region of the license.</p>",

"CreateLicenseVersionRequest\$SourceVersion": "<p>Current version of the license.</p>",

"CreateLicenseVersionResponse\$Version":

<p>New version of the license.</p>",

"CreateTokenResponse\$TokenId": "<p>Token ID.</p>",

"DeleteGrantRequest\$Version": "<p>Current version of the grant.</p>",

"DeleteGrantResponse\$Version": "<p>Grant version.</p>",

"DeleteLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>ID of the license configuration.</p>",

"DeleteLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>",

"DeleteLicenseRequest\$SourceVersion": "<p>Current version of the license.</p>",

"DeleteTokenRequest\$TokenId": "<p>Token ID.</p>",

"Entitlement\$Name": "<p>Entitlement name.</p>",

"Entitlement\$Value": "<p>Entitlement resource. Use only if the unit is None.</p>",

"EntitlementData\$Name": "<p>Entitlement data name.</p>",

"EntitlementData\$Value": "<p>Entitlement data value.</p>",

"EntitlementUsage\$Name":

<p>Entitlement usage name.</p>",

"EntitlementUsage\$ConsumedValue": "<p>Resource usage consumed.</p>",

"EntitlementUsage\$MaxCount": "<p>Maximum entitlement usage count.</p>",

"ExtendLicenseConsumptionRequest\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"ExtendLicenseConsumptionResponse\$LicenseConsumptionToken": "<p>License consumption token.</p>",

"FailedDependencyException\$ErrorCode": null,

"GetGrantRequest\$Version": "<p>Grant version.</p>",

"GetLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationId": "<p>Unique ID for the license configuration.</p>",

"GetLicenseConfigurationResponse\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Name": "<p>Name of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Description": "<p>Description of the license configuration.</p>",

"GetLicenseConfigurationResponse\$Status": "<p>License configuration status.</p>",

"GetLicenseConfigurationResponse\$OwnerAccountId": "<p>Account ID of the owner of the license configuration.</p>",

"GetLicenseConversionTaskResponse\$ResourceArn": "<p>Amazon Resource Names (ARN) of the resources the license conversion task is associated with.</p>",

"GetLicenseConversionTaskResponse\$StatusMessage": "<p>The status message for the conversion task.</p>",

"GetLicenseManagerReportGeneratorRequest\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator.</p>",

"GetLicenseRequest\$Version": "<p>License version.</p>",

"GetServiceSettingsResponse\$S3BucketArn": "<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, and so on.</p>",

"GetServiceSettingsResponse\$SnsTopicArn":
"<p>SNS topic configured to receive notifications from License Manager.</p>",

"GetServiceSettingsResponse\$LicenseManagerResourceShareArn": "<p>Amazon Resource Name (ARN) of the resource share. The License Manager management account provides member accounts with access to this share.</p>",

"Grant\$GrantName": "<p>Grant name.</p>",

"Grant\$HomeRegion": "<p>Home Region of the grant.</p>",

"Grant\$Version": "<p>Grant version.</p>",

"GrantedLicense\$LicenseName": "<p>License name.</p>",

"GrantedLicense\$ProductName": "<p>Product name.</p>",

"GrantedLicense\$ProductSKU": "<p>Product SKU.</p>",

"GrantedLicense\$HomeRegion": "<p>Home Region of the granted license.</p>",

"GrantedLicense\$Beneficiary": "<p>Granted license beneficiary.</p>",

"GrantedLicense\$Version": "<p>Version of the granted license.</p>",

"InventoryFilter\$Name": "<p>Name of the filter.</p>",

"InventoryFilter\$Value": "<p>Value of the filter.</p>",

"Issuer\$Name": "<p>Issuer name.</p>",

"Issuer\$SignKey": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>",

"IssuerDetails\$Name": "<p>Issuer name.</p>",

"IssuerDetails\$SignKey": "<p>Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm.</p>",

"IssuerDetails\$KeyFingerprint": "<p>Issuer key fingerprint.</p>",

"License\$LicenseName": "<p>License name.</p>",

"License\$ProductName": "<p>Product name.</p>",

"License\$ProductSKU": "<p>Product SKU.</p>",

"License\$HomeRegion": "<p>Home Region of the license.</p>",

"License\$Beneficiary": "<p>License beneficiary.</p>",

"License\$Version": "<p>License version.</p>",

"LicenseConfiguration\$LicenseConfigurationId": "<p>Unique ID of the license configuration.</p>",

"LicenseConfiguration\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"LicenseConfiguration\$Name": "<p>Name of the license configuration.</p>",

"LicenseConfiguration\$Description": "<p>Description of the license configuration.</p>",

"LicenseConfiguration\$Status": "<p>Status of the license configuration.</p>",

"LicenseConfiguration\$OwnerAccountId": "<p>Account ID of the license configuration's owner.</p>",

"LicenseConfigurationAssociation\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseConfigurationAssociation\$ResourceOwnerId": "<p>ID of the Amazon Web Services account that owns the resource consuming licenses.</p>",

"LicenseConfigurationAssociation\$AmiAssociationScope": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>",

"LicenseConfigurationUsage\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseConfigurationUsage\$ResourceStatus": "<p>Status of the resource.</p>",

"LicenseConfigurationUsage\$ResourceOwnerId": "<p>ID of the account that owns the resource.</p>",

"LicenseConversionTask\$ResourceArn": "<p>The Amazon Resource Name (ARN) of the resource associated with the license type conversion task.</p>",

"LicenseConversionTask\$StatusMessage": "<p>The status message for the conversion task.</p>",

"LicenseOperationFailure\$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",

"LicenseOperationFailure\$ErrorMessage": "<p>Error message.</p>",

"LicenseOperationFailure\$OperationName": "<p>Name of the operation.</p>",

"LicenseOperationFailure\$ResourceOwnerId": "<p>ID of the Amazon Web Services account that owns the resource.</p>",

"LicenseOperationFailure\$OperationRequestedBy": "<p>The requester is \"License Manager Automated Discovery\".</p>",

"LicenseSpecification\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"LicenseSpecification\$AmiAssociationScope": "<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>",

"ListAssociationsForLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of a license configuration.</p>",

"ListAssociationsForLicenseConfigurationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListAssociationsForLicenseConfigurationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListDistributedGrantsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListDistributedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name of the license configuration.</p>",

"ListFailuresForLicenseConfigurationOperationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListFailuresForLicenseConfigurationOperationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConfigurationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConfigurationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConversionTasksRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseConversionTasksResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseManagerReportGeneratorsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseManagerReportGeneratorsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseSpecificationsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of a resource that has an associated license configuration.</p>",

"ListLicenseSpecificationsForResourceRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseSpecificationsForResourceResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseVersionsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicenseVersionsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedGrantsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListReceivedLicensesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListResourceInventoryRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListResourceInventoryResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListTagsForResourceRequest\$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"ListTokensRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListTokensResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListUsageForLicenseConfigurationRequest\$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

"ListUsageForLicenseConfigurationRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListUsageForLicenseConfigurationResponse\$NextToken": "<p>Token for the next set of results.</p>",

"MaxSize3StringList\$member": null,

"Metadata\$Name": "<p>The key name.</p>",

"Metadata\$Value": "<p>The value.</p>",

"ProductInformation\$ResourceType": "<p>Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>.</p>",

"ProductInformationFilter\$ProductInformationFilterName": "<p>Filter name.</p>",

"ProductInformationFilter\$ProductInformationFilterComparator": "<p>Logical operator.</p>",

"RejectGrantResponse\$Version": "<p>Grant version.</p>",

"ReportGenerator\$ReportGeneratorName": "<p>Name of the report generator.</p>",

"ReportGenerator\$LicenseManagerReportGeneratorArn": "<p>Amazon Resource Name (ARN) of the report generator.</p>",

"ReportGenerator\$LastRunStatus": "<p>Status of the last report generation attempt.</p>",

"ReportGenerator\$LastRunFailureReason": "<p>Failure message for the last report generation attempt.</p>",

"ReportGenerator\$LastReportGenerationTime": "<p>Time the last report was generated at.</p>",

"ReportGenerator\$ReportCreatorAccount": "<p>The Amazon Web Services account ID used to create the report generator.</p>",

"ReportGenerator\$Description": "<p>Description of

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the report generator.</p>",
  "ReportGenerator$CreateTime": "<p>Time the report was created.</p>",
  "ResourceInventory$ResourceId": "<p>ID of the resource.</p>",
  "ResourceInventory$ResourceArn": "<p>Amazon Resource Name (ARN) of the resource.</p>",
  "ResourceInventory$Platform": "<p>Platform of the resource.</p>",
  "ResourceInventory$PlatformVersion": "<p>Platform version of the resource in the inventory.</p>",
  "ResourceInventory$ResourceOwningAccountId": "<p>ID of the account that owns the resource.</p>",
  "S3Location$bucket": "<p>Name of the S3 bucket reports are published to.</p>",
  "S3Location$keyPrefix": "<p>Prefix of the S3 bucket reports are published to.</p>",
  "StringList$member": null,
  "Tag$Key": "<p>Tag key.</p>",
  "Tag$Value": "<p>Tag value.</p>",
  "TagKeyList$member": null,
  "TagResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the license configuration.</p>",

  "TokenData$TokenId": "<p>Token ID.</p>",
  "TokenData$TokenType": "<p>Type of token generated. The supported value is
<code>REFRESH_TOKEN</code>.</p>",
  "TokenData$LicenseArn": "<p>Amazon Resource Name (ARN) of the license.</p>",
  "TokenData$Status": "<p>Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>.</p>",
  "UntagResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the license
configuration.</p>",
  "UpdateLicenseConfigurationRequest$LicenseConfigurationArn": "<p>Amazon Resource Name (ARN) of the
license configuration.</p>",
  "UpdateLicenseConfigurationRequest$Name": "<p>New name of the license configuration.</p>",
  "UpdateLicenseConfigurationRequest$Description": "<p>New description of the license configuration.</p>",
  "UpdateLicenseManagerReportGeneratorRequest$LicenseManagerReportGeneratorArn": "<p>Amazon
Resource Name (ARN) of the report generator to update.</p>",
  "UpdateLicenseManagerReportGeneratorRequest$Description":
"<p>Description of the report generator.</p>",
  "UpdateLicenseSpecificationsForResourceRequest$ResourceArn": "<p>Amazon Resource Name (ARN) of the
Amazon Web Services resource.</p>",
  "UpdateServiceSettingsRequest$S3BucketArn": "<p>Amazon Resource Name (ARN) of the Amazon S3
bucket where the License Manager information is stored.</p>",
  "UpdateServiceSettingsRequest$SnsTopicArn": "<p>Amazon Resource Name (ARN) of the Amazon SNS
topic used for License Manager alerts.</p>"
}
},
"StringList": {
  "base": null,
  "refs": {
    "CreateLicenseConfigurationRequest$LicenseRules": "<p>License rules. The syntax is #name=value (for
example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.</p> <ul> <li>
<p> <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> |
<code>maximumCores</code> | <code>minimumCores</code> </p>
</li> <li> <p> <code>Instances</code> dimension: <code>allowedTenancy</code> |
<code>maximumCores</code> | <code>minimumCores</code> | <code>maximumSockets</code> |

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`minimumSockets` | `maximumVcpus` | `minimumVcpus` </p>
<p> `Sockets` dimension: `allowedTenancy` | `licenseAffinityToHost` |
`maximumSockets` | `minimumSockets` </p> <p> `vCPUs`
dimension: `allowedTenancy` | `honorVcpuOptimization` |
`maximumVcpus` | `minimumVcpus` </p> <p>The unit for
`licenseAffinityToHost` is days and the range is 1 to 180. The possible values for
`allowedTenancy` are `EC2-Default`, `EC2-DedicatedHost`, and
`EC2-DedicatedInstance`. The possible values for `honorVcpuOptimization` are
`True` and `False`.</p>",

"GetLicenseConfigurationResponse\$LicenseRules":

"<p>License rules.</p>",

"LicenseConfiguration\$LicenseRules": "<p>License rules.</p>",

"ListLicenseConfigurationsRequest\$LicenseConfigurationArns": "<p>Amazon Resource Names (ARN) of the license configurations.</p>",

"ListTokensRequest\$TokenIds": "<p>Token IDs.</p>",

"ProductInformationFilter\$ProductInformationFilterValue": "<p>Filter value.</p>",

"UpdateLicenseConfigurationRequest\$LicenseRules": "<p>New license rule. The only rule that you can add after you create a license configuration is licenseAffinityToHost.</p>"

}

},

"Tag": {

"base": "<p>Details about a tag for a license configuration.</p>",

"refs": {

"TagList\$member": null

}

},

"TagKeyList": {

"base": null,

"refs": {

"UntagResourceRequest\$TagKeys": "<p>Keys identifying the tags to remove.</p>"

}

},

"TagList": {

"base": null,

"refs": {

"CreateLicenseConfigurationRequest\$Tags":

<p>Tags to add to the license configuration.</p>",

"CreateLicenseManagerReportGeneratorRequest\$Tags": "<p>Tags to add to the report generator.</p>",

"GetLicenseConfigurationResponse\$Tags": "<p>Tags for the license configuration.</p>",

"ListTagsForResourceResponse\$Tags": "<p>Information about the tags.</p>",

"ReportGenerator\$Tags": "<p>Tags associated with the report generator.</p>",

"TagResourceRequest\$Tags": "<p>One or more tags.</p>"

}

},

"TagResourceRequest": {

"base": null,

"refs": {

}

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},
"TagResourceResponse": {
  "base": null,
  "refs": {
  }
},
"TokenData": {
  "base": "<p>Describes a token.</p>",
  "refs": {
    "TokenList$member": null
  }
},
"TokenList": {
  "base": null,
  "refs": {
    "ListTokensResponse$Tokens": "<p>Received token details.</p>"
  }
},
"TokenString": {
  "base": null,
  "refs": {
    "CreateTokenResponse$Token":
"<p>Refresh token, encoded as a JWT token.</p>",
    "GetAccessTokenRequest$Token": "<p>Refresh token, encoded as a JWT token.</p>",
    "GetAccessTokenResponse$AccessToken": "<p>Temporary access token.</p>"
  }
},
"TokenType": {
  "base": null,
  "refs": {
    "CreateTokenResponse$TokenType": "<p>Token type.</p>"
  }
},
"UnsupportedDigitalSignatureMethodException": {
  "base": "<p>The digital signature method is unsupported. Try your request again.</p>",
  "refs": {
  }
},
"UntagResourceRequest": {
  "base": null,
  "refs": {
  }
},
"UntagResourceResponse": {
  "base": null,
  "refs": {
  }
},

```

```

"UpdateLicenseConfigurationRequest": {
  "base": null,
  "refs": {
  }
},
"UpdateLicenseConfigurationResponse": {
  "base": null,
  "refs": {
  }
},
"UpdateLicenseManagerReportGeneratorRequest": {
  "base": null,
  "refs":
{
  }
},
"UpdateLicenseManagerReportGeneratorResponse": {
  "base": null,
  "refs": {
  }
},
"UpdateLicenseSpecificationsForResourceRequest": {
  "base": null,
  "refs": {
  }
},
"UpdateLicenseSpecificationsForResourceResponse": {
  "base": null,
  "refs": {
  }
},
"UpdateServiceSettingsRequest": {
  "base": null,
  "refs": {
  }
},
"UpdateServiceSettingsResponse": {
  "base": null,
  "refs": {
  }
},
"UsageOperation": {
  "base": null,
  "refs": {

```

"LicenseConversionContext\$UsageOperation": "<p>The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond to which usage operation values see Sample data: usage operation by platform </p>"

```

    }
  },
  "ValidationException":
  {
    "base": "<p>The provided input is not valid. Try your request again.</p>",
    "refs": {
      }
    }
  }
  {
    "version": "2.0",
    "service": "<p>With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances.</p>",
    "operations": {
      "AssociateUser": "<p>Associates the user to an EC2 instance to utilize user-based subscriptions.</p>",
      "DeregisterIdentityProvider": "<p>Deregisters the identity provider from providing user-based subscriptions.</p>",
      "DisassociateUser": "<p>Disassociates the user from an EC2 instance providing user-based subscriptions.</p>",
      "ListIdentityProviders": "<p>Lists the identity providers for user-based subscriptions.</p>",
      "ListInstances": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
      "ListProductSubscriptions": "<p>Lists the user-based subscription products available from an identity provider.</p>",
      "ListUserAssociations": "<p>Lists user associations for an identity provider.</p>",
      "RegisterIdentityProvider": "<p>Registers an identity provider for user-based subscriptions.</p>",
      "StartProductSubscription": "<p>Starts a product subscription for a user with the specified identity provider.</p>",
      "StopProductSubscription": "<p>Stops a product subscription for a user with the specified identity provider.</p>"
    },
    "shapes": {
      "AccessDeniedException": {
        "base": "<p>You don't have sufficient access to perform this action.</p>",
        "refs": {
          }
        },
      "ActiveDirectoryIdentityProvider": {
        "base": "<p>Details about an Active Directory identity provider.</p>",
        "refs": {
          "IdentityProvider$ActiveDirectoryIdentityProvider": "<p>An object that details an Active Directory identity provider.</p>"
        }
      },
      "AssociateUserRequest": {
        "base": null,
        "refs": {
          }
        },
      "AssociateUserResponse": {

```

```

"base": null,
"refs": {
}
},
"BoxInteger": {
"base": null,
"refs": {
  "ListIdentityProvidersRequest$MaxResults":
"<p>Maximum number of results to return in a single call.</p>",
  "ListInstancesRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>",
  "ListProductSubscriptionsRequest$MaxResults": "<p>Maximum number of results to return in a single
call.</p>",
  "ListUserAssociationsRequest$MaxResults": "<p>Maximum number of results to return in a single call.</p>"
}
},
"ConflictException": {
"base": "<p>The request couldn't be completed because it conflicted with the current state of the resource.</p>",
"refs": {
}
},
"DeregisterIdentityProviderRequest": {
"base": null,
"refs": {
}
},
"DeregisterIdentityProviderResponse": {
"base": null,
"refs": {
}
},
"DisassociateUserRequest": {
"base": null,
"refs": {
}
},
"DisassociateUserResponse": {
"base": null,
"refs": {
}
},
"Filter": {
"base": "<p>A filter
name and value pair that is used to return more specific results from a describe operation. Filters can be used to
match a set of resources by specific criteria, such as tags, attributes, or IDs.</p>",
"refs": {
  "FilterList$member": null
}
},

```

```

"FilterList": {
  "base": null,
  "refs": {
    "ListInstancesRequest$Filters": "<p>An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify.</p>",
    "ListProductSubscriptionsRequest$Filters": "<p>An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify.</p>",
    "ListUserAssociationsRequest$Filters": "<p>An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify.</p>"
  }
},
"IdentityProvider": {
  "base": "<p>Details about an identity provider.</p>",
  "refs": {
    "AssociateUserRequest$IdentityProvider": "<p>The identity provider of the user.</p>",
    "DeregisterIdentityProviderRequest$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
    "DisassociateUserRequest$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
    "IdentityProviderSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
    "InstanceUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
    "ListProductSubscriptionsRequest$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
    "ListUserAssociationsRequest$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
    "ProductUserSummary$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
    "RegisterIdentityProviderRequest$IdentityProvider":
    "<p>An object that specifies details for the identity provider.</p>",
    "StartProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>",
    "StopProductSubscriptionRequest$IdentityProvider": "<p>An object that specifies details for the identity provider.</p>"
  }
},
"IdentityProviderSummary": {
  "base": "<p>Describes an identity provider.</p>",
  "refs": {
    "DeregisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an identity provider operation.</p>",
    "IdentityProviderSummaryList$member": null,
    "RegisterIdentityProviderResponse$IdentityProviderSummary": "<p>Metadata that describes the results of an identity provider operation.</p>"
  }
},
"IdentityProviderSummaryList": {
  "base": null,
  "refs": {

```

```

    "ListIdentityProvidersResponse$IdentityProviderSummaries": "<p>Metadata
that describes the list identity providers operation.</p>"
  }
},
"InstanceSummary": {
  "base": "<p>Describes an EC2 instance providing user-based subscriptions.</p>",
  "refs": {
    "InstanceSummaryList$member": null
  }
},
"InstanceSummaryList": {
  "base": null,
  "refs": {
    "ListInstancesResponse$InstanceSummaries": "<p>Metadata that describes the list instances operation.</p>"
  }
},
"InstanceUserSummary": {
  "base": "<p>Describes users of an EC2 instance providing user-based subscriptions.</p>",
  "refs": {
    "AssociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",
    "DisassociateUserResponse$InstanceUserSummary": "<p>Metadata that describes the associate user
operation.</p>",
    "InstanceUserSummaryList$member": null
  }
},
"InstanceUserSummaryList": {
  "base": null,
  "refs": {
    "ListUserAssociationsResponse$InstanceUserSummaries":
"<p>Metadata that describes the list user association operation.</p>"
  }
},
"InternalServerError": {
  "base": "<p>An exception occurred with the service.</p>",
  "refs": {
  }
},
"ListIdentityProvidersRequest": {
  "base": null,
  "refs": {
  }
},
"ListIdentityProvidersResponse": {
  "base": null,
  "refs": {
  }
},

```

```

"ListInstancesRequest": {
  "base": null,
  "refs": {
  }
},
"ListInstancesResponse": {
  "base": null,
  "refs": {
  }
},
"ListProductSubscriptionsRequest": {
  "base": null,
  "refs": {
  }
},
"ListProductSubscriptionsResponse": {
  "base": null,
  "refs": {
  }
},
"ListUserAssociationsRequest": {
  "base": null,
  "refs": {
  }
},
"ListUserAssociationsResponse": {
  "base": null,
  "refs": {
  }
},
"ProductUserSummary": {
  "base": "<p>The summary
of the user-based subscription products for a user.</p>",
  "refs": {
    "ProductUserSummaryList$member": null,
    "StartProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product
subscription operation.</p>",
    "StopProductSubscriptionResponse$ProductUserSummary": "<p>Metadata that describes the start product
subscription operation.</p>"
  }
},
"ProductUserSummaryList": {
  "base": null,
  "refs": {
    "ListProductSubscriptionsResponse$ProductUserSummaries": "<p>Metadata that describes the list product
subscriptions operation.</p>"
  }
},

```

```

"RegisterIdentityProviderRequest": {
  "base": null,
  "refs": {
  }
},
"RegisterIdentityProviderResponse": {
  "base": null,
  "refs": {
  }
},
"ResourceNotFoundException": {
  "base": "<p>The resource couldn't be found.</p>",
  "refs": {
  }
},
"ServiceQuotaExceededException": {
  "base": "<p>The
request failed because a service quota is exceeded.</p>",
  "refs": {
  }
},
"StartProductSubscriptionRequest": {
  "base": null,
  "refs": {
  }
},
"StartProductSubscriptionResponse": {
  "base": null,
  "refs": {
  }
},
"StopProductSubscriptionRequest": {
  "base": null,
  "refs": {
  }
},
"StopProductSubscriptionResponse": {
  "base": null,
  "refs": {
  }
},
"String": {
  "base": null,
  "refs": {
    "AccessDeniedException$message": null,
    "ActiveDirectoryIdentityProvider$DirectoryId": "<p>The directory ID for an Active Directory identity
provider.</p>",
    "AssociateUserRequest$Domain": "<p>The domain name of the user.</p>",

```

"AssociateUserRequest\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"AssociateUserRequest\$Username": "<p>The user name from the identity provider for the user.</p>",

"ConflictException\$message": null,

"DeregisterIdentityProviderRequest\$Product": "<p>The name of the user-based subscription product.</p>",

"DisassociateUserRequest\$Domain": "<p>The domain name of the user.</p>",

"DisassociateUserRequest\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"DisassociateUserRequest\$Username": "<p>The user name from the identity provider for the user.</p>",

"Filter\$Attribute": "<p>The name of an attribute to use as a filter.</p>",

"Filter\$Operation": "<p>The type of search (For example, eq, geq, leq)</p>",

"Filter\$Value": "<p>Value of the filter.</p>",

"IdentityProviderSummary\$FailureMessage": "<p>The failure message associated with an identity provider.</p>",

"IdentityProviderSummary\$Product": "<p>The name of the user-based subscription product.</p>",

"IdentityProviderSummary\$Status": "<p>The status of an identity provider.</p>",

"InstanceSummary\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"InstanceSummary\$LastStatusCheckDate": "<p>The date of the last status check.</p>",

"InstanceSummary\$Status": "<p>The status of an EC2 instance resource.</p>",

"InstanceSummary\$StatusMessage": "<p>The status message for an EC2 instance.</p>",

"InstanceUserSummary\$AssociationDate": "<p>The date a user was associated with an EC2 instance.</p>",

"InstanceUserSummary\$DisassociationDate": "<p>The date a user was disassociated from an EC2 instance.</p>",

"InstanceUserSummary\$Domain": "<p>The domain name of the user.</p>",

"InstanceUserSummary\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"InstanceUserSummary\$Status": "<p>The status of a user associated with an EC2 instance.</p>",

"InstanceUserSummary\$StatusMessage": "<p>The status message for users of an EC2 instance.</p>",

"InstanceUserSummary\$Username": "<p>The user name from the identity provider for the user.</p>",

"InternalServerException\$message": null,

"ListIdentityProvidersRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListIdentityProvidersResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListInstancesRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListInstancesResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListProductSubscriptionsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListProductSubscriptionsRequest\$Product": "<p>The name of the user-based subscription product.</p>",

"ListProductSubscriptionsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ListUserAssociationsRequest\$InstanceId": "<p>The ID of the EC2 instance, which provides user-based subscriptions.</p>",

"ListUserAssociationsRequest\$NextToken": "<p>Token for the next set of results.</p>",

"ListUserAssociationsResponse\$NextToken": "<p>Token for the next set of results.</p>",

"ProductUserSummary\$Domain": "<p>The domain name of the user.</p>",

"ProductUserSummary\$Product": "<p>The name of the user-based subscription product.</p>",

"ProductUserSummary\$Status": "<p>The status of a product for a user.</p>",

"ProductUserSummary\$StatusMessage": "<p>The status message for a product for a user.</p>",

```

"ProductUserSummary$SubscriptionEndDate": "<p>The end date of a subscription.</p>",
"ProductUserSummary$SubscriptionStartDate": "<p>The start date of a subscription.</p>",
"ProductUserSummary$Username": "<p>The user name from the identity provider of the user.</p>",
"RegisterIdentityProviderRequest$Product": "<p>The name of the user-based subscription product.</p>",
"ResourceNotFoundException$message": null,
"ServiceQuotaExceededException$message":
null,
"StartProductSubscriptionRequest$Domain": "<p>The domain name of the user.</p>",
"StartProductSubscriptionRequest$Product": "<p>The name of the user-based subscription product.</p>",
"StartProductSubscriptionRequest$Username": "<p>The user name from the identity provider of the user.</p>",
"StopProductSubscriptionRequest$Domain": "<p>The domain name of the user.</p>",
"StopProductSubscriptionRequest$Product": "<p>The name of the user-based subscription product.</p>",
"StopProductSubscriptionRequest$Username": "<p>The user name from the identity provider for the
user.</p>",
"StringList$member": null,
"ThrottlingException$message": null,
"ValidationException$message": null
}
},
"StringList": {
"base": null,
"refs": {
"InstanceSummary$Products": "<p>A list of provided user-based subscription products.</p>"
}
},
"ThrottlingException": {
"base": "<p>The
request was denied because of request throttling. Retry the request.</p>",
"refs": {
}
},
"ValidationException": {
"base": "<p>A parameter is not valid.</p>",
"refs": {
}
}
}
}

```

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```
{  
  "pagination": {  
  }  
}
```

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Version 3, 29 June 2007

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1.489 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/",
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    },
    license="BSD-3-Clause",
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    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",
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        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 2.7",
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        "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]"]},
)

```

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* /pallets-jinja-2-11-2-0-g737a4cd-1-tar-gz/pallets-jinja-737a4cd/setup.py

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1.490 fsnotify 1.6.0

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1.491 zstd 1.4.5

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1.492 wsgiref 0.1.2

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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/

PDF

<http://peak.telecommunity.com/wsgiref.pdf>

Platform: UNKNOWN

Found in path(s):

* /wsgiref-0-1-2-zip/wsgiref-0.1.2/PKG-INFO

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1.496 go-cache 2.1.0+incompatible

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Jason Mooberry <jasonmoo@me.com>

Sergey Shepelev <temotor@gmail.com>

Alex Edwards <ajmedwards@gmail.com>

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1.498 nats-py 2.9.0

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1.500 cpp 4.8.3

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w' and `show c' should show the appropriate
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Any

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```
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Version 3.1, 31 March 2009

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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(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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Version 2.1, February 1999

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```
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```

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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end smallexample
```

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

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

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@ignore
@c Set file name and title for man page.
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
gpl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{ } 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
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@c This file is intended to be included within another document,
@c hence no sectioning command or @node.
@c man end
@end ignore

@c Special handling for inclusion in the install manual.

@ifset gfdlhtml

@ifnohtml

@comment node-name, next, previous, up

@node GNU Free Documentation License, Concept Index, Old, Top

@end ifnohtml

@html

<h1 align="center">Installing GCC: GNU Free Documentation License</h1>

@end html

@ifnohtml

@unnumbered GNU Free Documentation License

@end ifnohtml

@end ifset

@c man begin DESCRIPTION

@ifclear gfdlhtml

@node GNU Free Documentation License

@unnumbered

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@end ifclear

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enumerate

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

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```

1.501 saxon 6-5-5

1.501.1 Available under license :

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Found in path(s):

- * /saxon6-5-5-zip/source-zip/com/icl/saxon/ContentEmitter.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/expr/XPathException.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/functions/LocalName.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/style/XSLVariable.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/expr/ArithmeticExpression.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/expr/ObjectValue.java
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- * /saxon6-5-5-zip/source-zip/com/icl/saxon/charcode/Latin1CharacterSet.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/style/XSLOutput.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/style/XSLMessage.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/number/Numberer_de.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/tinytree/AttributeEnumeration.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/expr/UnionEnumeration.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/style/XSLElement.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/functions/Round.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/functions/Not.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/pattern/UnionPattern.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/tree/NamespaceImpl.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/functions/Lang.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/PIGrabber.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/sql/SQLColumn.java
- *
- /saxon6-5-5-zip/source-zip/com/icl/saxon/IdentityTransformerHandler.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/style/XSLTemplate.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/WinStyleSheet.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/style/XSLStyleSheet.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/output/Emitter.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/style/XSLApplyImports.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/output/ErrorEmitter.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/om/NamePool.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/tinytree/TinyNodeImpl.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/tree/TreeBuilder.java

- * /saxon6-5-5-zip/source-zip/com/icl/saxon/expr/NodeSetExpression.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/style/XSLOtherwise.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/style/SAXONFunction.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/tree/ArrayEnumeration.java
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- * /saxon6-5-5-zip/source-zip/com/icl/saxon/tree/PrecedingSiblingEnumeration.java
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- * /saxon6-5-5-zip/source-zip/com/icl/saxon/expr/AxisExpression.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/TreeDriver.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/om/EmptyEnumeration.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/om/AxisEnumeration.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/style/TerminationException.java
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- * /saxon6-5-5-zip/source-zip/com/icl/saxon/charcode/CP1251CharacterSet.java
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- /saxon6-5-5-zip/source-zip/com/icl/saxon/output/DOMEmitter.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/functions/Contains.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/charcode/KOI8RCharacterSet.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/tree/NodeFactory.java
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- * /saxon6-5-5-zip/source-zip/com/icl/saxon/style/SAXONItem.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/TemplatesHandlerImpl.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/tree/AttributeCollection.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/output/UncommittedEmitter.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/om/DocumentPool.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/DecimalFormatManager.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/functions/Current.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/pattern/NodeTest.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/functions/ElementAvailable.java
- *
- /saxon6-5-5-zip/source-zip/com/icl/saxon/style/XSLInclude.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/tinytree/PrecedingEnumeration.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/tree/ParentNodeImpl.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/om/Namespace.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/functions/Sum.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/number/Numberer_en.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/om/Navigator.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/tree/NodeImpl.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/output/NamespaceEmitter.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/output/XMLIndenter.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/expr/FragmentValue.java
- * /saxon6-5-5-zip/source-zip/com/icl/saxon/expr/ErrorExpression.java

```
* /saxon6-5-5-zip/source-zip/com/icl/saxon/pattern/NodeTypeTest.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/expr/StandaloneContext.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/style/ExtensionElementFactory.java
*
/saxon6-5-5-zip/source-zip/com/icl/saxon/style/LiteralResultElement.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/expr/PositionRange.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/style/XSLDecimalFormat.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/Context.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/tinytree/PrecedingSiblingEnumeration.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/Controller.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/KeyManager.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/output/DocumentHandlerProxy.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/output/StringOutputter.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/style/XSLImport.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/tree/LineNumberMap.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/tree/FollowingEnumeration.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/style/StyleElement.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/pattern/AnyNodeTest.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/style/SAXONWhile.java
*
/saxon6-5-5-zip/source-zip/com/icl/saxon/style/XSLProcessingInstruction.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/functions/GenerateId.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/style/SAXONAssign.java
* /saxon6-5-5-zip/source-zip/com/icl/saxon/expr/StringValue.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* $Id: XmlParser.java,v 1.8 2001/06/06 17:57:44 dbrownell Exp $
* Copyright (C) 1999-2001 David Brownell
*
* This program is free software; you can redistribute it and/or modify
* it under the terms of the GNU General Public License as published by
* the Free Software Foundation; either version 2 of the License, or
* (at your option) any later version.
*
* This program is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
* GNU General Public License for more details.
*
* You should have received a copy of the GNU General Public License
* along with this program; if not, write to the Free Software
* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
*/
// retained intact. You are free to modify AElfred for your own use and
// This program is distributed
// in the hope that it will be useful, but
// WITHOUT ANY WARRANTY; without even the implied warranty of
```

// merchantability or fitness for a particular purpose. Please use it AT

Found in path(s):

* /saxon6-5-5-zip/source-zip/com/icl/saxon/aelfred/XmlParser.java

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

<html>

<head>

<title>Standards Conformance</title>

<body leftmargin="150" bgcolor="#ddeeef">

<div align=right>SAXON home page</div>

<p>

Standards Conformance</p>

<h2>XSLT and XPath conformance</h2>

<p><i>SAXON XSLT implements the

XSLT 1.0 and XPath 1.0 Recommendations from the World Wide Web Consortium, found at

http://www.w3.org/TR/1999/REC-xslt-19991116 and

http://www.w3.org/TR/1999/REC-xpath-19991116, which are

referred to here collectively as "XSLT"</i></p>

<p>SAXON is 100% conformant to the mandatory requirements of these standards, subject to the

limitations noted below.</p>

<p>SAXON also

implements certain facilities

defined in the draft XSLT 1.1 specification, but these

are only available when the stylesheet specifies <code>version="1.1"</code>, or when the relevant

construct is within a literal result element that specifies <code>xsl:version="1.1"</code>.

Note that the W3C XSL Working Group has announced that XSLT 1.1 will not be taken beyond

working draft status. Most of these facilities (with the exception of the Java and Javascript

language bindings) have been carried forward into XSLT 2.0, but in some cases with different syntax.</p>

<p>The XSLT 1.1 features supported are as follows:</p>

<p>SAXON will automatically convert a result tree fragment to a node-set when required, as defined in the draft XSLT 1.1 specification. (This feature is retained in XSLT 2.0, though in a more generalized form).</p>

<p>SAXON supports the <xsl:document> element defined in the draft XSLT 1.1 specification.

The implementation is incomplete: in particular (a) the href attribute is interpreted as a filename relative to the current directory (not the base URI), and (b) the provisions relating to use of `<xsl:document>` while the current output destination is a temporary tree are not yet implemented. (In XSLT 2.0, this feature is provided by the `<xsl:result-document>` element. XSLT 2.0 has a new, unrelated, instruction named `<xsl:document>`).

SAXON supports the use of `<xsl:script>` to define external Java functions. The archive attribute is available only with a JDK1.2 or later JVM. The rules for identifying a Java class and a method within the class are as defined in the working draft XSLT 1.1 specification. The Context object implements the XSLTContext interface defined in XSLT 1.1.

SAXON supports the use of `<xml:base>` to define the Base URI of a node, as defined in the XSLT 1.1 specifications, except in the case of the base URI of a processing instruction contained in an external entity. (This feature is supported regardless of the setting of `<xsl:]version</code>`).

SAXON also supports synonyms `<saxon:script>` for `<xsl:script>`, and `<saxon:output>` for `<xsl:document>`; the synonyms can be used in a version 1.0 stylesheet, following the normal rules for extension elements. Conversion of a result tree fragment to a node-set can be achieved using the `<saxon:node-set()>` or `<exslt:node-set()>` extension functions, regardless of the version setting.

SAXON is dependant on the user-selected XML parser to ensure conformance with the XML 1.0 Recommendation and the XML Namespaces Recommendation.

SAXON implements the `<?xml-stylesheet?>` processing instruction as described in the W3C Recommendation *Associating StyleSheets with XML Documents*. The `<href>` pseudo-attribute must be a URI identifying an XML document containing a stylesheet, or a URI with a fragment identifier identifying an embedded stylesheet. The fragment must be the value of an ID attribute declared as such in the DTD.

[Limitations](#)

For a more up-to-date list of limitations in this release see [limitations.html](http://saxon.sf.net/saxon6.5.4/limitations.html).

SAXON supports language-dependent sorting and numbering only for English, but offers APIs that allow support of other languages via user-written additions.

The XSLT 1.0 specification defines the semantics of the `format-number` function in terms of the `DecimalFormat` class in Java JDK 1.1. In Saxon, the behavior follows whichever version of the JDK is actually being used. This means that extensions defined in later JDK releases will be available in Saxon even though they are errors according to the specification. In addition, Saxon's `format-number` requires all characters used in the decimal format string to be 16-bit characters; Unicode surrogate pairs are not supported.

The JDK 1.1 implementation of `DecimalFormat` included a "feature" that was not described in the JDK 1.1 documentation, but was subsequently made part of the specification: if a subpicture is included for negative numbers, the only part of the subpicture that is taken into account is the prefix and suffix. Because Saxon relies on the Java implementation, it incorporates this "feature", which has not been retained in the XSLT 2.0 specification of `format-number`.

Another limitation imposed by the Java `DecimalFormat` class is that the characters used for digits, for the decimal point and grouping separator, and for other roles such as percent signs, must all be 2-byte characters, that is, Unicode characters with codepoints less than 65536.

An erratum to the XSLT 1.0 specification states that `xsl:copy` and `xsl:copy-of` may be used

to add a namespace node to a newly constructed element. This works correctly in Saxon, provided that the name of the namespace node does not clash with the namespace prefix that Saxon has allocated to the element for serialization purposes. (In principle, this namespace prefix should not be present in the result tree, and should therefore be incapable of causing a conflict.) More details: see bug

[637117](http://sourceforge.net/tracker/index.php?func=detail&aid=637117&group_id=29872&atid=397617)

Saxon's checking of the characters used in a QName is an approximation to the rules in the XML specification.

Some rarely-used characters are permitted when they should be rejected, and there may also be a few cases where valid characters are rejected.

As permitted by the XSLT specification, Saxon imposes limits on the processing resources that can be used by a transformation. Most of these limits are implicit in the design of the NamePool:

- 65535 different namespace URIs
- 65535 different namespace prefixes
- 255 different prefixes for any one namespace URI
- 1024 different expanded-names in any one hash bucket, where the number of hash buckets is fixed as 1024

These limits apply to all the documents sharing a single NamePool. The limits can be extended by using multiple NamePool instances.

<h3>Documentation</h3>

<p>The XSLT specification says that the documentation for an implementation should specify which URI schemes are supported. SAXON supports the URI scheme implemented by the Java <code>java.net.URL</code> class, with the optional addition of a fragment identifier, as described below.

Additionally,

SAXON allows the user to nominate a URResolver class which can be used to implement any URI scheme the user wants.</p>

<p>The XSLT specification says that the documentation for an implementation should specify for which media types fragment identifiers are supported. The standard URI resolver supports access to XML documents only. A simple fragment identifier is allowed, consisting of the value of an ID attribute in the document. The effect is to return the subdocument rooted at the element with this identifier if there is one, or an empty document otherwise. For example, the URI mydoc.xml#aaa locates the XML document mydoc.xml, and if it contains an element <eeee id="aaa">, where id is an attribute of type ID, then the document retrieved is an XML document with this <eeee> element as its outermost (document) element.</p>

<p>The values of the vendor-specific system properties are:</p>

xsl:version	1.0
xsl:vendor	SAXON n.n.n from Michael Kay
xsl:vendor-url	http://saxon.sf.net/

<p>All three values are subject to change in future releases. Users wishing to test whether the processor is SAXON are advised to test whether the xsl:vendor system property starts with the string "SAXON".</p>

<h3>Extensions</h3>

<p>SAXON implements a number of extensions to standard XSLT, following the rules for extension functions and extension elements where appropriate. The extensions are documented in extensions.html. They are all implemented in accordance with the provisions in the standard for extensibility.</p>

<h2>Character encodings supported</h2>

<p>The following is the list of encodings recognized by the built-in AElfired parser (case-insensitive):</p>

```
<pre>
ISO-8859-1, 8859_1, ISO8859_1
US-ASCII, ASCII
UTF-8, UTF8
ISO-10646-UCS-2, UTF-16, UTF-16BE, UTF-16LE
</pre>
```

<p>The encodings available on output are the intersection of:</p>

```
<pre>
ascii, us-ascii, utf-8, utf8, utf-16, utf16, iso-8859-1, iso-8859-2
ko18-r, cp852, cp1250, windows-1250, cp1251, windows-1251
(again case-insensitive)
</pre>
```

<p>with whatever your Java VM supports.</p>

<p>If you select an encoding that the Java VM recognizes, but which is not in the above list, then the output will be written in the requested encoding, but all non-ASCII characters will be written as character references.</p>

<h2>XML 1.0 Conformance</h2>

<p>Saxon can be used with any SAX-conformant XML parser. The extent of XML conformance depends entirely on the chosen parser.</p>

<p>The default parser is a version of Æfred. There is one known non-conformance in the version of the AElfred parser provided with the Saxon product: it does not enforce the constraint that the contents of a general entity must be well-formed. Note, however, that this parser does not perform XML validation.</p>

<h2>DOM Conformance</h2>

<p>SAXON accepts input (both source document and stylesheet) from any standards-compliant DOM implementation.</p>

<p>SAXON allows the result tree to be attached to any Document or Element node of an existing DOM. Any DOM implementation can be used, provided it is mutable.</p>

<p>SAXON's internal tree structure (which is visible through the Java API, including the case where Java extensions functions are called from XPath expressions) conforms with the minimal requirements of the DOM level 2 core Java language binding. This DOM interface is read-only, so all attempts to call updating methods throw an appropriate DOM exception. No optional features are implemented. The DOM interfaces to Saxon's tree structure do not reveal namespace nodes as attributes. This means it is not possible to get information about namespace declarations except by calls such as getPrefix() and getNamespaceURI() on Element and Attr nodes.</p>

If an extension function returns a DOM Node or NodeList, this must consist only of Nodes in a tree constructed using Saxon. Since Saxon's trees cannot be updated using DOM methods, this means that the nodes returned must either be nodes from the original source tree, or nodes from a tree constructed using Saxon's proprietary API. It is

not possible to construct the tree using DOM methods such as createElement() and createAttribute().

JAXP 1.1 Conformance

Saxon implements the JAXP 1.1 API (including TrAX), as defined in [JSR-63](http://java.sun.com/aboutJava/communityprocess/review/jsr063/index.html). Saxon implements the interfaces in the javax.xml.transform package in full, including support for SAX, DOM, and Stream input, and SAX, DOM, and Stream output.

There are restrictions in using transform() on a DOMSource when the node to be transformed is a node other than the root (i.e. the DOM Document node). These apply only if the supplied DOM is a third-party DOM, not if it is a Saxon-constructed tree.

Specifically, if the start node is not the root then it must be an element; and it must not have an ancestor or preceding-sibling node, or an ancestor with a preceding-sibling node, that is an entity reference node or CDATA section node. In addition, the element must be part of a tree that is rooted at a Document node.

When an identity transform is carried out (that is, a transform that uses no Templates object), with the source being a DOMSource, then the entire DOM Document is copied, regardless of the start node wrapped by the DOMSource object. The specification in this area is not clear, but Saxon's behavior differs from other implementations.

Saxon also implements the `javax.xml.parsers` API. The SAX interfaces are implemented in full. The DOM interfaces are limited by the capabilities of the Saxon DOM, specifically the fact that it is read-only. Nevertheless, the DocumentBuilder may be used to construct a Saxon tree, or to obtain an empty Document node which can be supplied in a DOMResult to hold the result of a transformation.

Error recovery policy

Where the XSLT specification requires that an error be signaled, Saxon produces an error message and terminates stylesheet execution.

In the case of errors detected at compile time, it attempts to report as many errors as possible before terminating; in the case of run-time errors, it terminates after the first error.

Where the XSLT specification states that the processor may recover from an error, Saxon takes one of three actions as described in the table below. Either it signals the error and terminates execution, or it recovers silently from the error in the manner permitted by the specification, or it places the action under user control. In the latter case there are three options: report the error and terminate, recover silently, or (the default) recover after writing a warning

to the system error output stream. These actions can be modified by supplying a user-defined `ErrorListener`.

Handling of individual recoverable errors is described in the table below.

Error	Action
There is more than one template rule that matches a node, with the same import precedence and priority	User option
There is more than one <code>xsl:namespace-alias</code> statement for a given prefix, with the same import precedence	Recover silently
An element name defined using <code>xsl:element</code> is invalid	User option
An attribute name defined using <code>xsl:attribute</code> is invalid	User option
There are several attribute sets with the same import precedence that define the same named attribute	Recover silently
A processing-instruction name defined using <code>xsl:processing-instruction</code> is invalid	User option
A node other than a text node is written to the result tree while instantiating <code>xsl:attribute</code> , <code>xsl:comment</code> , or <code>xsl:processing-instruction</code>	User option

<tr>
<td valign="top">Invalid characters are written to the content of a comment or processing instruction</td>
<td valign="top">User option</td>
</tr>

<tr>
<td valign="top">An attribute node or namespace node is written directly to the root of a result tree fragment, or to any other node that is not an element node.</td>
<td valign="top">User option</td>
</tr>

<tr>
<td valign="top">The document() function identifies a resource that cannot be retrieved</td>
<td valign="top">User option</td>
</tr>

<tr>
<td valign="top">There are several xsl:output elements specifying the same attribute with the same import precedence</td>
<td valign="top">Recover silently</td>
</tr>

<tr>
<td valign="top">disable-output-escaping is used for a text node while instantiating xsl:attribute, xsl:comment, or xsl:processing-instruction</td>
<td valign="top">Recover silently</td>
</tr>

<tr>
<td valign="top">disable-output-escaping is used for a text node within a result tree fragment that is subsequently converted to a string or number</td>
<td valign="top">Recover silently</td>
</tr>

<tr>
<td valign="top">disable-output-escaping is used for a text node containing a character that cannot be output using the target encoding</td>
<td valign="top">Recover silently</td>
</tr>

</table>

<hr>
<p align="center">Michael H. Kay

Saxonica Limited

22 June 2005</p>

</body>

</html>

Found in path(s):

* /saxon6-5-5-zip/doc/conformance.html

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

<html>

<head>

<title>SAXON: Conditions of Use</title>

</head>

<body leftmargin="150" bgcolor="#ddeeff">

<div align=right>SAXON home page</div>

<h1><big>SAXON: Conditions of Use</big></h1>

<h2>Saxon</h2>

<p>The contents of the downloaded file (saxon.zip), with the exception of the

Ælfred parser (see below),

are subject to the Mozilla Public License Version 1.0

(the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.mozilla.org/MPL/</p>

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<p>The Original Code of

SAXON comprises all those components which are not explicitly attributed

to other parties. It does not include the Ælfred parser, which is redistributed under

the licence described below.</p>

<p>The Initial Developer of the Original Code was Michael Kay.

Individual modules identified as being created by James Clark, David Megginson, or John Cowan include separate IPR notices. All Rights Reserved.</p>

<p><small><i>Until January 2001 Michael Kay worked for International Computers Limited (ICL, now part of Fujitsu), and from February 2001 to January 2004 he worked for Software AG. These two companies both sponsored the development of Saxon and authorised its release under this license, but are not themselves parties to the license. Michael Kay now runs his own company, Saxonica, which has taken over all responsibility for Saxon development and support.</i></small> </p>

<p><small><i>For reasons of continuity,

the icl.com domain name is retained in package names and namespace

URIs with the tacit

consent of ICL, but this should not be taken to imply any ongoing ICL involvement.

If you produce a product that includes or requires SAXON, please refer to it as "The SAXON XSLT Processor from Michael Kay", and include the URL of the home page, which is at

<http://saxon.sourceforge.net/>.

There is no guarantee of technical support, though I am usually able to answer enquiries within a few days. Please subscribe to the mailing list available at

<http://lists.sourceforge.net/lists/listinfo/saxon-help/>

<http://lists.sourceforge.net/lists/listinfo/saxon-help/> and raise any enquiries there.

Also check the Saxon project pages on sourceforge for details of known errors; all bugs are listed there as soon as I have sufficient evidence to describe the nature of the problem.

Aelfred

Included in the Saxon distribution is a modified version of the Aelfred XML parser

originally developed by David Megginson at Microstar (no longer in existence).

I have taken the relevant part of

[David Brownell](mailto:david-b@pacbell.net)'s

[Aelfred2](http://home.pacbell.net/david-b/xml/) distribution, repackaged it, and fixed a few bugs. All changes are clearly documented in the source code.

This is distributed under the terms of Microstar's terms and conditions, which are as follows:

--	--

Aelfred, Version 1.2

Microstar's Java-Based XML Parser

Copyright (c) 1997, 1998 by Microstar Software Ltd.

Home Page: <http://www.microstar.com/XML/>

Aelfred is free for both commercial and non-commercial use and redistribution, provided that Microstar's copyright and disclaimer are retained intact. You are free to modify Aelfred for your own use and to redistribute Aelfred with your modifications, provided that the modifications are clearly documented.

DISCLAIMER

This

program is distributed in the hope that it will be useful, but

WITHOUT ANY WARRANTY; without even the implied warranty of

merchantability or fitness for a particular purpose. Please use it AT
YOUR OWN RISK.</p>

</td><td width=100></td></tr></table>

<p>David Brownell added the following statement: </p>

<code><pre>

/*

* Copyright (c) 1999-2000 by David Brownell. All Rights Reserved.

*

* This program is open source software; you may use, copy, modify, and

* redistribute it under the terms of the LICENSE with which it was

* originally distributed.

*

* This program is distributed in the hope that it will be useful,

* but WITHOUT ANY WARRANTY; without even the implied warranty of

* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

* LICENSE for more details.

*/

</pre></code>

<p>The version included with Saxon is David Brownell's code of 26 Feb 2000,
modified as follows:</p>

Changed the package name to com.icl.saxon.aelfred
to prevent any accidental confusion with the
original Microstar code or with David Brownell's version.

Fixed several bugs: (1) a bug in namespace handling (where an attribute xxx:name precedes the xmlns:xxx
declaration) (2) poor diagnostics when end of file occurs prematurely

Subsetting the code to include only the XML non-validating parser and SAX driver, with appropriate
changes to the setFeature() and getFeature() methods.

Some further changes made by David Brownell up to June 2001 have been incorporated.

<hr>

<p align="center">Michael H. Kay

Saxonica Limited

22 June 2005</p>

</body>

</html>

Found in path(s):

* /saxon6-5-5-zip/doc/conditions.html

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

<P>Text placed in the public domain by Moby Lexical Tools, 1992.</P>

Found in path(s):

* /saxon6-5-5-zip/samples/data/othello.xml

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/*

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*/

Found in path(s):

* /saxon6-5-5-zip/source-zip/com/icl/saxon/om/XMLChar.java

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// The line marked PB-SYNC is by Peter Bryant (pbryant@bigfoot.com). All Rights Reserved.

Found in path(s):

* /saxon6-5-5-zip/source-zip/com/icl/saxon/expr/Expression.java

* /saxon6-5-5-zip/source-zip/com/icl/saxon/Loader.java

* /saxon6-5-5-zip/source-zip/com/icl/saxon/pattern/Pattern.java

* /saxon6-5-5-zip/source-zip/com/icl/saxon/FeatureKeys.java

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

// Failing that, try the old proprietary mechanisms from XSLT 1.0 days

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Found in path(s):

* /saxon6-5-5-zip/source-zip/com/icl/saxon/style/ExpressionContext.java

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Found in path(s):

* /saxon6-5-5-zip/source-zip/com/icl/saxon/exslt/Math.java

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

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Found in path(s):

* /saxon6-5-5-zip/source-zip/com/icl/saxon/tinytree/TinyDocumentImpl.java

* /saxon6-5-5-zip/source-zip/com/icl/saxon/KeyDefinition.java

* /saxon6-5-5-zip/source-zip/com/icl/saxon/tree/DocumentImpl.java

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

<html>

<head>

<meta HTTP-EQUIV="Content-Type" CONTENT="text/html; charset=iso-8859-1">

<title>XSLT Elements</title>

<link rel="stylesheet" type="text/css" href="saxon-style.css">

</head>

<body>

<div align=right>Saxon home page</div>

<h1>XSLT Elements</h1>

<p>This page lists the standard XSL elements, all of which are supported in SAXON Stylesheets. For extension elements provided with the SAXON product, see

extensions.html.</p>

<p>SAXON implements the XSLT version 1.0 specification from the World Wide Web Consortium:

see Conformance. This page is designed to

give a summary of the features: for the full specification, consult the official standard.</p>

```

<table width="723">
<tr>
  <td colspan=3 bgcolor="#0000FF"><font color="#FFFFFF"><big><b>Contents</b></big></font></td>
</tr>

<tr>

  <td VALIGN="top" bgcolor="#00FFFF">
    <b>Standard XSL Elements</b><br>
    <a href="#xsl:apply-imports">xsl:apply-imports</a><br>
    <a href="#xsl:apply-templates">xsl:apply-templates</a><br>
    <a href="#xsl:attribute">xsl:attribute</a><br>
    <a href="#xsl:attribute-set">xsl:attribute-set</a><br>
    <a href="#xsl:call-template">xsl:call-template</a><br>
    <a href="#xsl:choose">xsl:choose</a><br>
    <a href="#xsl:comment">xsl:comment</a><br>
    <a href="#xsl:copy">xsl:copy</a><br>
    <a href="#xsl:copy-of">xsl:copy-of</a><br>
    <a href="#xsl:decimal-format">xsl:decimal-format</a><br>
    <a href="#xsl:document">xsl:document</a><br>
  </td><td VALIGN="top" bgcolor="#00FFFF">
    <a href="#xsl:element">xsl:element</a><br>
    <a href="#xsl:fallback">xsl:fallback</a><br>
    <a href="#xsl:for-each">xsl:for-each</a><br>
    <a href="#xsl:if">xsl:if</a><br>
    <a href="#xsl:include">xsl:include</a><br>
    <a href="#xsl:import">xsl:import</a><br>
    <a href="#xsl:key">xsl:key</a><br>
    <a href="#xsl:message">xsl:message</a><br>
    <a href="#xsl:namespace-alias">xsl:namespace-alias</a><br>
    <a href="#xsl:number">xsl:number</a><br>
    <a href="#xsl:otherwise">xsl:otherwise</a><br>
    <a href="#xsl:output">xsl:output</a><br>
  </td><td VALIGN="top" bgcolor="#00FFFF">
    <a href="#xsl:param">xsl:param</a><br>
    <a href="#xsl:processing-instruction">xsl:processing-instruction</a><br>
    <a href="#xsl:preserve-space">xsl:preserve-space</a><br>
    <a href="#xsl:script">xsl:script</a><br>
    <a href="#xsl:sort">xsl:sort</a><br>
    <a href="#xsl:strip-space">xsl:strip-space</a><br>
    <a href="#xsl:stylesheet">xsl:stylesheet</a><br>
    <a href="#xsl:template">xsl:template</a><br>
    <a href="#xsl:text">xsl:text</a><br>
    <a href="#xsl:value-of">xsl:value-of</a><br>
    <a href="#xsl:variable">xsl:variable</a><br>
    <a href="#xsl:when">xsl:when</a><br>
    <a href="#xsl:with-param">xsl:with-param</a><br>

```


Literal Result Elements

</td>

</tr>
</table>

<h2>Standard XSLT Elements</h2>

<h3>xsl:apply-imports</h3>

<p>The xsl:apply-imports element is used in conjunction with imported stylesheets. There are no attributes. The element may contain zero or more xsl:with-param elements (as permitted in XSLT 1.1 and XSLT 2.0).</p>

<p>At run-time, there must be a <i>current template</i>. A current template is established when a template is activated as a result of a call on xsl:apply-templates. Calling xsl:call-template does not change the current template. Calling xsl:for-each does not (as the XSLT standard says it should) cause the current template to become null.</p>

<p>The effect is to search for a template that matches the current node and that is defined in a stylesheet that was imported (directly or indirectly, possibly via xsl:include) from the stylesheet containing the current template, and whose mode matches the current mode. If there is such a template, it is activated using the current node. If not, the call on xsl:apply-imports has no effect.</p>

<hr>

<h3>xsl:apply-templates</h3>

<p>The xsl:apply-templates element causes navigation from the current element, usually but not necessarily to process its children. Each selected node is processed using the best-match xsl:template defined for that node. </p>

<p>The xsl:apply-templates element takes an optional attribute, mode, which identifies the processing mode. If this attribute is present, only templates with a matching mode parameter will be considered when searching for the rule to apply to the selected elements.</p>

<p>It also takes an optional attribute, select.</p>

<p>If the select attribute is <i>omitted</i>, apply-templates causes all the immediate children of the current node to be processed: that is, child elements and character content, in the order in which it appears. Character content must be processed by a template whose match pattern will be something like `*/text()`. Child elements similarly are processed using the appropriate template, selected according to the rules given below under xsl:template.</p>

<p>If the select attribute is <i>included</i>, it must be a <i>node set expression</i> which identifies the nodes to be processed. All nodes selected by the expression are processed.</p>

<p>The xsl:apply-templates element is usually empty, in which case the selected nodes are processed in the order they appear in the source document. However it may include xsl:sort and/or xsl:param elements:

For sorted processing, one or more child xsl:sort elements may be included. These define the sort order to be applied to the selection. The sort keys are listed in major-to-minor order.

To supply parameters to the called template, one or more xsl:with-param elements may be included. The values of these parameters are available to the called template.</p>

<p>The selected nodes are processed in a particular <i>context</i>. This context includes:

A current node: the node being processed
A current node list: the list of nodes being processed, in the order they are processed (this affects the value of the position() and last() functions)
A set of variables, which initially is those variable defined as parameters</p>

<p>Some examples of the most useful forms of select expression are listed below:</p>

Expression	Meaning
XXX	Process all immediate child elements with tag XXX

```

<tr>
  <td WIDTH="24%" VALIGN="TOP"><font SIZE="2">*</font></td>
  <td WIDTH="76%" VALIGN="TOP"><font SIZE="2">Process all immediate child elements
    (but not character data within the element)</font></td>
</tr>
<tr>
  <td WIDTH="24%" VALIGN="TOP"><font SIZE="2">../TITLE</font></td>
  <td WIDTH="76%" VALIGN="TOP"><font SIZE="2">Process the TITLE children of the parent
element</font></td>
</tr>
<tr>
  <td WIDTH="24%" VALIGN="TOP"><font SIZE="2">XXX[@AAA]</font></td>
  <td WIDTH="76%" VALIGN="TOP"><font SIZE="2">Process all XXX child elements having
    an attribute named AAA</font></td>
</tr>
<tr>
  <td WIDTH="24%" VALIGN="TOP"><font SIZE="2">@*</font></td>
  <td WIDTH="76%" VALIGN="TOP"><font SIZE="2">Process all attributes of the current element</font></td>
</tr>
<tr>
  <td WIDTH="24%" VALIGN="TOP"><font SIZE="2">*/ZZZ</font></td>
  <td WIDTH="76%" VALIGN="TOP"><font SIZE="2">Process all grandchild ZZZ elements
</font></td>
</tr>
<tr>
  <td WIDTH="24%" VALIGN="TOP"><font SIZE="2">XXX[ZZZ]</font></td>
  <td WIDTH="76%" VALIGN="TOP"><font SIZE="2">Process all child XXX elements that have a child
ZZZ</font></td>
</tr>
<tr>
  <td WIDTH="24%" VALIGN="TOP"><font SIZE="2">XXX[@WIDTH and not(@WIDTH="20")]</font></td>
  <td WIDTH="76%" VALIGN="TOP"><font SIZE="2">Process all child XXX elements that have a WIDTH
attribute whose
  value is not "20" </font></td>
</tr>
<tr>
  <td WIDTH="24%" VALIGN="TOP"><font SIZE="2">AUTHOR[1]</font></td>
  <td WIDTH="76%" VALIGN="TOP"><font SIZE="2">Process the first child AUTHOR element</font></td>
</tr>
<tr>
  <td WIDTH="24%" VALIGN="TOP"><font SIZE="2">APPENDIX[@NUMBER][last()]</font></td>
  <td WIDTH="76%" VALIGN="TOP"><font SIZE="2">Process the last child APPENDIX element having a
NUMBER
  attribute</font></td>
</tr>
<tr>
  <td WIDTH="24%" VALIGN="TOP"><font SIZE="2">APPENDIX[last()][@NUMBER]</font></td>
  <td WIDTH="76%"

```

```
VALIGN="TOP"><font SIZE="2">Process the last child APPENDIX element provided
  it has a NUMBER attribute</font></td>
</tr>
</table>
```

<p>The full syntax of select expressions is given in XPath Expression Syntax</h3>

<hr>

<h3>xsl:attribute</h3>

<p>The xsl:attribute element is used to add an attribute value to an xsl:element element or general formatting element, or to an element created using xsl:copy. The attribute must be output immediately after the element, with no intervening character data. The name of the attribute is indicated by the name attribute and the value by the content of the xsl:attribute element.</p>

<p>The attribute name is interpreted as an <i>attribute value template</i>, so it may contain string expressions within curly braces. The full syntax of string expressions is given in XPath Expression Syntax</p>

<p>For example, the following code creates a element with several attributes:</p>

```
<p>
<table border="1" width="100%" class="code">
<tr>
  <td width="100%" bgcolor="#00FFFF"><font FACE="Courier New" SIZE="3"><pre>
&lt;xsl:element name="FONT"&gt;
  &lt;xsl:attribute name="SIZE"&gt;4&lt;/xsl:attribute&gt;
  &lt;xsl:attribute name="FACE"&gt;Courier New&lt;/xsl:attribute&gt;
Some output text
&lt;/xsl:element&gt;
  </pre></font></td>
</tr>
</table>
</p>
```

<p>There are two main uses for the xsl:attribute element: </p>

- It is the only way to set attributes on an element generated dynamically using xsl:element
- It allows attributes of a literal result element to be calculated using xsl:value-of.

<p>The `xsl:attribute` must be output immediately after the relevant element is generated: there must be no intervening character data (other than white space which is ignored). SAXON outputs the closing `>` of the element start tag as soon as something other than an attribute is written to the output stream, and rejects an attempt to output an attribute if there is no currently-open start tag. Any special characters within the attribute value will automatically be escaped (for example, `<` will be output as `&lt;`)</p>

<p>If two attributes are output with the same name, the second one takes precedence.</p>

<p>Saxon permits the additional attribute `saxon:disable-output-escaping`. If this is set to the value "yes", then the attribute value will be output as-is, without escaping of special characters. This affects both the normal XML escaping (e.g. of ampersand) and the special URL escaping that occurs with non-ASCII characters in HTML URL attributes (e.g. href) which normally causes a space to be output as `%20`.</p>

<hr>

<h3>xsl:attribute-set</h3>

<p>The `xsl:attribute-set` element is used to declare a named collection of attributes, which will often be used together to define an output style.

It is declared at the top level (subordinate to `xsl:stylesheet`).</p>

<p>An attribute-set contains a collection of `xsl:attribute` elements.</p>

<p>The attributes in an attribute-set can be used in several ways:

They can be added to a literal result element by specifying `xsl:use-attribute-sets` in the list of attributes for the element. The value is a space-separated list of attribute-set names. Attributes specified explicitly on the literal result element, or added using `xsl:attribute`, override any that are specified in the attribute-set definition.

They can be added to an element created using `xsl:element`, by specifying `use-attribute-sets` in the list of attributes

for the `xsl:element` element. The value is a space-separated list of attribute-set names. Attributes specified explicitly on

the literal result element, or added using `xsl:attribute`, override any that are specified in the attribute-set definition.

One attribute set can be based on another by specifying `use-attribute-sets` in the list of attributes

for the `xsl:attribute-set` element. Again, attributes defined explicitly in the attribute set override any that are included implicitly from another attribute set.

</p>

<p>Attribute sets named in the `xsl:use-attribute-sets` or `use-attribute-sets` attribute are applied in the order given: if the same attribute is generated more than once, the later value always takes precedence.</p>

<hr>

<h3>xsl:call-template</h3>

<p>The xsl:call-template element is used to invoke a named template.</p>

<p>The name attribute is mandatory and must match the name defined on an xsl:template element.</p>

<p>Saxon supports an additional attribute saxon:allow-avt. If this is present and is set to the value "yes", then the name attribute may be written as an attribute value template, allowing the called template to be decided at run-time. The string result of evaluating the attribute value template must be a valid QName that identifies a named template somewhere in the stylesheet.</p>

<p>Parameters to the called template may be defined using xsl:with-param elements nested within the xsl:call-template element.</p>

<p>The context of the called template (for example the current node and current node list) is the same as that for the calling template; however the variables defined in the calling template are not accessible in the called template.</p>

<hr>

<h3>xsl:choose</h3>

<p>The xsl:choose element is used to choose one of a number of alternative outputs. The element typically contains a number of xsl:when elements, each with a separate test condition. The first xsl:when element whose condition matches the current element in the source document is expanded, the others are ignored. If none of the conditions is satisfied, the xsl:otherwise child element, if any, is expanded.</p>

<p>The test condition in the xsl:when element is a boolean expression. The full syntax of expressions is given in XPath Expression Syntax</h3>

<p>Example:</p>

<p>

```

<table border="1" width="100%" class="code">
<tr>
  <td width="100%" bgcolor="#00FFFF"><font FACE="Courier New" SIZE="3"><pre>
&lt;xsl:choose&gt;
  &lt;xsl:when test="@cat='F'"&gt;Fiction&lt;/xsl:when&gt;
  &lt;xsl:when test="@cat='C'"&gt;Crime&lt;/xsl:when&gt;
  &lt;xsl:when test="@cat='R'"&gt;Reference&lt;/xsl:when&gt;
  &lt;xsl:otherwise&gt;General&lt;/xsl:otherwise&gt;
&lt;/xsl:choose&gt;
  </pre></font></td>
</tr>
</table>
</p>

```

```
<hr>
```

```
<h3><a name="xsl:comment">xsl:comment</a></h3>
```

<p>The xsl:comment element can appear anywhere within an xsl:template. It indicates text that is to be output to the current output stream in the form of an XML or HTML comment.</p>

<p>For example, the text below inserts some JavaScript into a generated HTML document:</p>
<div align="left">

```

<table border="1" width="100%" class="code">
<tr>
  <td width="100%" bgcolor="#00FFFF"><font FACE="Courier New" SIZE="3"><pre>
&lt;script language="JavaScript"&gt;
  &lt;xsl:comment&gt;
    function bk(n) {
      parent.frames['content'].location="chap&quot; + n + &quot;.1.html&quot;;
    }
  //&lt;/xsl:comment&gt;
&lt;/script&gt;
</pre></font></td>
</tr>
</table>
</div>

```

<p>Note that special characters occurring within the comment text will <i>not</i>

</table></p>

<hr>

<h3>xsl:copy-of</h3>

<p>The xsl:copy-of element copies the value of the expression in the mandatory select attribute to the result tree.</p>

<p>If this expression is a string, a number, or a boolean, the effect is the same as using xsl:value-of. It is usually used where the value is a nodeset or a result tree fragment.</p>

<hr>

<h3>xsl:decimal-format</h3>

<p>The xsl:decimal-format element is used at the top level of a stylesheet to indicate a set of localisation parameters. If the xsl:decimal-format element has a name attribute, it identifies a named format; if not, it identifies the default format.</p>

<p>In practice decimal formats are used only for formatting numbers using the format-number() function in XSL expressions.

For details of the attributes available, see the XSLT specification.</p>

<hr>

<h3>xsl:document</h3>

<p>The <code>xsl:document</code> element was introduced in XSLT 1.1, and is implemented in Saxon as a replacement for the previous extension element saxon:output. It is a forerunner of the XSLT 2.0 instruction <code>xsl:result-document</code>, and is unrelated to the XSLT 2.0 <code>xsl:document</code> instruction.

It is used to direct output to a secondary output destination. It is available only when the stylesheet specifies <emph>forwards-compatibility mode</emph>, that is, when the <code>version</code> attribute on <code>xsl:stylesheet</code> or the <code>xsl:version</code> element on a containing literal result element has a value other than <code>1.0</code> (The value <code>1.1</code>

is recommended but not strictly necessary).

Most of the attributes are the same as for `xsl:output`, including the additional extension attributes supported by Saxon. The one addition is the mandatory `href` attribute, which defines the destination of the output after serialization. In this version of Saxon, the `href` attribute is interpreted as a filename (not a URI) relative to the current working directory.

Here is an example that uses `xsl:document`:

```
<div align="left">
```

```
<table border="1" width="100%" class="code">
<tr>
<td width="100%" bgcolor="#00FFFF"><font FACE="Courier New" SIZE="3"><pre>
<xsl:template match="preface">
  <xsl:document href="{ $dir }\preface.html">
    <html body bgcolor="#00eeee" center>
      <xsl:apply-templates/>
    </center><hr/></body></html>
  </xsl:document>
  <a
href="{ $dir }\preface.html">Preface</a>
</xsl:template></pre>
</font></td>
</tr>
</table>
</div>
```

Here the body of the preface is directed to a file called `preface.html` (prefixed by a parameter that supplies the directory name). Output then reverts to the previous destination, where an HTML hyperlink to the newly created file is inserted.

```
<hr>
```

```
<h3><a name="xsl:element">xsl:element</a></h3>
```

The `xsl:element` is used to create an output element whose name might be calculated at run-time.

The element has a mandatory attribute, `name`, which is the name of the generated element. The name attribute is an `attribute value template`, so it may contain string expressions inside curly braces.

The attributes of the generated element are defined by subsequent `xsl:attribute` elements. The content of the generated element is whatever is generated between the `<xsl:element>` and `</xsl:element>` tags.

Additionally, attributes of the generated element can be defined by reference to a named attribute set. The optional use-attribute-sets attribute contains a white-space-separated list of attribute set names. They are applied in the order given: if the same attribute is generated more than once, the later value always takes precedence.

For example, the following code creates a element with several attributes:

```
<p>
<table border="1" width="100%" class="code">
  <tr>
    <td width="100%" bgcolor="#00FFFF"><font FACE="Courier New" SIZE="3"><pre>
&lt;xsl:element name="FONT">
  &lt;xsl:attribute name="SIZE">4&lt;/xsl:attribute>
  &lt;xsl:attribute name="FACE">Courier New&lt;/xsl:attribute>
Some output text
&lt;/xsl:element></pre></font></td>
  </tr>
</table>
</p>
```

xsl:fallback</h3>

The <xsl:fallback> element is used to define recovery action to be taken when an instruction element is used in the stylesheet and no implementation of that element is available. An element is an instruction element if its namespace URI is the standard URI for XSL elements or if its namespace is identified in the xsl:extension-element-prefixes attribute of a containing literal result element, or in the extension-element-prefixes attribute of the xsl:stylesheet element.

If the xsl:fallback element appears in any other context, it is ignored, together with all its child and descendant elements.

There are no attributes.

If the parent element can be instantiated and processed, the xsl:fallback element and its descendants are ignored. If the parent element is not recognised or if any failure occurs instantiating it, all its xsl:fallback children are processed in turn. If there are no xsl:fallback children, an error is reported.

<hr>

<h3>xsl:for-each</h3>

<p>The xsl:for-each element causes iteration over the nodes selected by a node-set expression.

It can be used as an alternative to xsl:apply-templates where the child nodes of the current node are known in advance. There is a mandatory attribute, select, which defines the nodes over which the statement will iterate. The XSL statements subordinate to the xsl:for-each element are applied to each source node selected by the node-set expression in turn.<p>

<p>The full syntax of node-set expressions is given in XPath Expression Syntax</h3>

<p>The xsl:for-each element may have one or more xsl:sort child elements to define the order of sorting. The sort keys are specified in major-to-minor order.</p>

<p>The expression used for sorting can be any string expressions. The following are particularly useful:</p>

element-name, e.g. TITLE: sorts on the value of a child element

attribute-name, e.g. @CODE: sorts on the value of an attribute

".": sorts on the character content of the element

"qname(.)":

sorts on the name of the element

<p>Example 1:</p>

<p>

```
<table border="1" width="100%" class="code">
```

```
<tr>
```

```
<td width="100%" bgcolor="#00FFFF"><font FACE="Courier New" SIZE="3"><pre>
```

```
&lt;xsl:template match="BOOKLIST"&gt;
```

```
&lt;TABLE&gt;
```

```
&lt;xsl:for-each select="BOOK"&gt;
```

```
&lt;TR&gt;
```

```
&lt;TD&gt;&lt;xsl:value-of select="TITLE"/&gt;&lt;/TD&gt;
```

```
&lt;TD&gt;&lt;xsl:value-of select="AUTHOR"/&gt;&lt;/TD&gt;
```

```
&lt;TD&gt;&lt;xsl:value-of select="ISBN"/&gt;&lt;/TD&gt;
```

```
&lt;/TR&gt;
```

```
&lt;/xsl:for-each&gt;
```

```
&lt;/TABLE&gt;
```

```
&lt;/xsl:template&gt;</pre>
```

```
</font></td>
</tr>
</table>
</p>
```

<p>Example 2: sorting with `xsl:for-each`. This example also shows a template for a `BOOKLIST` element which processes all the child `BOOK` elements in order of their child `AUTHOR` elements.</p>

```
<table border="1" width="100%" class="code">
<tr>
<td width="100%" bgcolor="#00FFFF"><font FACE="Courier New" SIZE="3"><pre>
<!--xsl:template
match="&quot;BOOKLIST&quot;";
<!--h2;
<!--xsl:for-each select="BOOK";
<!--xsl:sort select="AUTHOR"/;
<!--p;AUTHOR: &lt;xsl:value-of select="AUTHOR"/&gt;&lt;/p;
<!--p;TITLE: &lt;xsl:value-of select="TITLE"/&gt;&lt;/p;
<!--hr;
<!--/xsl:for-each;
<!--h2;
<!--/xsl:template;
</pre>
</font></td>
</tr>
</table>
</div>
```

```
<hr>
```

```
<h3><a name="xsl:if">xsl:if</a></h3>
```

<p>The `xsl:if` element is used for conditional processing. It takes a mandatory `test` attribute, whose value is a boolean expression. The contents of the `xsl:if` element are expanded only if the expression is true.</p>

<p>The full syntax of boolean expressions is given in [XPath Expression Syntax](expressions.html)</p></h3>

<p>Example:</p>

```
<div align="left">
```

```
<table border="1" width="100%" class="code">
<tr>
  <td width="100%" bgcolor="#00FFFF"><font FACE="Courier New" SIZE="3"><pre>
<!--xsl:if
test="@preface">&gt;
  <a href="preface.html">&gt;Preface</a>&gt;
</xsl:if></pre>
  </font></td>
</tr>
</table>
</div>
```

<p>This includes a hyperlink in the output only if the current element has a preface attribute.</p>

<hr>

xsl:include</h3>

<p>The xsl:include element is always used at the top level of the stylesheet. It has a mandatory href attribute, which is a URL (absolute or relative) of another stylesheet to be textually included within this one. The top-level elements of the included stylesheet effectively replace the xsl:include element.</p>

<p>xsl:include may also be used at the top level of the included stylesheet, and so on recursively.</p>

<hr>

xsl:import</h3>

<p>The xsl:import element is always used at the top level of the stylesheet, and it must appear before all other elements at the top level. It has a mandatory href attribute, which is a URL (absolute or relative) of another stylesheet to be textually included within this one. The top-level elements of the included stylesheet effectively replace the xsl:import element.</p>

<p>xsl:import may also be used at the top level of the included stylesheet, and so

on recursively.</p>

<p>The elements in the imported stylesheet have lower precedence than the elements in the importing stylesheet. The main effect of this is on selection of a template when xsl:apply-templates is used: if there is a matching template with precedence X, all templates with precedence less than X are ignored, regardless of their priority.</p>

<hr>

<h3>xsl:key</h3>

<p>The xsl:key element is used at the top level of the stylesheet to declare an attribute, or other value, that may be used as a key to identify nodes using the key() function within an expression. Each xsl:key definition declares a named key, which must match the name of the key used in the key() function.</p>

<p>The set of nodes to which the key applies is defined by a pattern in the match attribute: for example, if match="ACT|SCENE" then every ACT element and every SCENE element is indexed by this key.</p>

<p>The value of the key, for each of these matched elements, is determined by the use attribute. This is an expression, which is evaluated for each matched element. If the expression returns a node-set, the string value of each node in this node-set acts as a key value. For example, if use="AUTHOR", then each AUTHOR child of the matched element supplies one key value. If the expression returns any other value, the value is converted to a string and that string acts as the key.</p>

<p>Note that

Keys are not unique: the same value may identify many different nodes

Keys are multi-valued: each matched node may have several (zero or more) values of the key, any one of which may be used to locate that node

Keys can only

be used to identify nodes within a single XML document: the key() function will return nodes that are in the same document as the current node.

</p>

<p>All three attributes, name, match, and use, are mandatory.</p>

<hr>

<h3>xsl:message</h3>

<p>The xsl:message element causes a message to be displayed. The message is the contents of the xsl:message element.</p>

<p>There is an optional attribute terminate with permitted values yes and no; the default is no. If the value is set to yes, processing of the stylesheet is terminated after issuing the message.</p>

<p>By default the message is displayed on the standard error output stream. You can supply your own message Emitter if you want it handled differently. This must be a class that implements the com.icl.saxon.output.Emitter interface. The content of the message is in general an XML fragment. You can supply the emitter using the -m option on the command line, or the setMessageEmitter() method of the Controller class.</p>

<p>No newline is added to the message; if you want one, include it in the text using
, as in the example below.</p>

<p>Example: This example displays an error message.</p>

<div align="left">

<table border="1" width="100%" class="code">

<tr>

<td width="100%" bgcolor="#00FFFF"><pre>

<xsl:template match="BOOK">

<xsl:if test="not(@AUTHOR)">

<xsl:message>Error: BOOK found with no AUTHOR!
</xsl:message>

</xsl:if>

...

</xsl:template>

</pre>

</td>

</tr>

</table>

</div>

<hr>

<h3>xsl:namespace-alias</h3>

<p>The xsl:namespace-alias element is a top-level element that is used to control the mapping between a namespace URI used in the stylesheet and the corresponding namespace URI used in the result document.</p>

<p>Normally when a literal result element is encountered in a template, the namespace used for the element name and attribute names in the result document is the same as the namespace used in the stylesheet. If a different namespace is wanted (e.g. because the result document is a stylesheet using the XSLT namespace), then `xsl:namespace-alias` can be used to define the mapping.</p>

<p>Example: This example causes literal result elements that use the prefix `outxsl` to be used to generate elements in the result tree that will be in the XSLT namespace. It assumes that both namespaces `xsl` and `outxsl` have been declared and are in scope. Note that XSLT defines the namespace URI for the new elements, but it does not define what namespace prefix will be used in the output (the keyword `result-prefix` is misleading).</p>

<div align="left">

```
<table border="1" width="100%" class="code">
<tr>
<td width="100%" bgcolor="#00FFFF"><font FACE="Courier New" SIZE="3"><pre>
<code>xsl:namespace-alias stylesheet-prefix="outxsl"
result-prefix="xsl"/&gt;
</pre>
</font></td>
</tr>
</table>
</div>
```

<hr>

<h3>xsl:number</h3>

<p>The `xsl:number` element outputs the sequential number of a node in the source document. It takes an attribute `count` whose value is a pattern indicating which nodes to count; the default is to match all nodes of the same type and name as the current node.</p>

<p>The `level` attribute may take three values: "single", "any", or "multiple". The default is "single".</p>

<p>There is also an optional `from` attribute, which is also a pattern. The exact meaning of this depends on the level.</p>

<p>The calculation is as follows:</p>

```
<table>
<tr><td valign=top><font SIZE="2">level=single</td><td><font SIZE="2"><ol>
<li>If the current node matches the pattern, the counted node is the current node. Otherwise the
counted node is the innermost ancestor of the current node that matches the pattern. If no ancestor
matches the pattern, the result is zero. If the from attribute is present, the counted node must be
a descendant of a node that matches the "from" pattern.</li>
<li>The result is one plus the number of elder siblings of the counted node that match the count pattern.</li>
</ol></td></tr>
```

```
<tr><td valign=top width="20%"><font SIZE="2">level=any</td><td><font SIZE="2">
The result is the number of nodes in the document that match the count pattern, that are at or before
the current node in document order, and that follow in document order the most recent node that matches the "from"
pattern, if any. Typically this is used
to number, say, the diagrams or equations in a document, or in some section or chapter of a document, regardless
of where the diagrams or equations appear in the hierarchic structure.
</td></tr>
```

```
<tr><td valign=top width="20%"><font SIZE="2">level=multiple</td><td><font SIZE="2">
The result of this is not a single number, but a list of numbers. There
is one number in the list for each
ancestor of the current element that matches the count pattern and that is a descendant of the anchor element.
Each number is one plus the number of elder siblings of the relevant element that match the count pattern. The
order of the numbers is "outwards-in".</td></tr></table>
```

<p>There is an optional format attribute which controls the output format. This contains an alternating sequence of format-tokens and punctuation-tokens. A format-token is any sequence of alphanumeric characters, a punctuation-token is any other sequence. The following values (among others) are supported for the format-token:</p>

```
<table>
<tr><td width="60%"><font SIZE="2">1</td><td><font SIZE="2">Sequence 1, 2, 3, ... 10, 11, 12, ...</td></tr>
<tr><td width="60%"><font SIZE="2">001</td><td><font SIZE="2">Sequence 001, 002, 003, ... 010, 011, 012, ...
(any number of
leading zeroes)</td></tr>
<tr><td><font SIZE="2">a</td><td><font SIZE="2">Sequence a, b, c, ... aa, ab,
ac, ...</td></tr>
<tr><td><font SIZE="2">A</td><td><font SIZE="2">Sequence A, B, C, ... AA, AB, AC, ...</td></tr>
<tr><td><font SIZE="2">i</td><td><font SIZE="2">Sequence i, ii, iii, iv, ... x, xi, xii, ...</td></tr>
<tr><td><font SIZE="2">I</td><td><font SIZE="2">Sequence I, II, III, IV, ... X, XI, XII, ...</td></tr>
</table>
```

<p>There is also support for various Japanese sequences (Hiragana, Katakana, and Kanji) using the format tokens あ, ア, い, イ, 一, and for Greek and Hebrew sequences.</p>

<p>The format token "one" gives the sequence "one", "two", "three", ... , while "ONE" gives the same in upper-case.</p>

<p>The default format is "1".</p>

<p>Actually, any sequence of ASCII digits in the format is treated in the same way: writing 999 has the same effect as writing 001. A sequence of Unicode digits other than ASCII digits (for exaple, Tibetan digits) can also be used, and will result in decimal numbering using those digits.</p>

<p>Similarly, any other character classified as a letter can be used, and will result in "numbering" using all consecutive Unicode letters following the one provided. For example, specifying "x" will give the sequence x, y, z, xx, xy, xz, yx, yy, yz, etc. Specifying the Greek letter alpha (²) will cause "numbering" using the Greek letters up to "Greek letter omega with tonos" (Î). Only "i" and "I" (for roman numbering), and the Japanese characters listed above, are exceptions to this rule.</p>

<p>Successive format-tokens in the format are used to process successive numbers in the list. If there are more format-tokens in the format than numbers in the list, the excess format-tokens and punctuation-tokens are ignored. If there are fewer format-tokens in the format than numbers in the list, the last format-token and the punctuation-token that precedes it are used to format all excess numbers, with the final punctuation-token being used only at the end.</p>

<p>Examples:<p>

<table>		
<tr><td width=150>Number(s)</td>		
<td width=150>Format</td>		
<td width=150>Result</td></tr>		
<tr><td>3</td>	<td>(1)</td>	<td>(3)</td></tr>
<tr><td>12</td>	<td>I</td>	<td>XII</td></tr>
<tr><td>2,3</td>	<td>1.1</td>	<td>2.3</td></tr>
<tr><td>2,3</td>	<td>1(i)</td>	<td>2(iii)</td></tr>		
<tr><td>2,3</td>	<td>1.</td>	<td>2.3.</td></tr>
<tr><td>2,3</td>	<td>A.1.1</td>	<td>B.3.</td></tr>		
<tr><td>2,3,4,5</td>	<td>1.1</td>	<td>2.3.4.5</td></tr>		
</table>		

<p>This character may be preceded or followed by arbitrary punctuation (anything other than these characters or XML special characters such as "<") which is copied to the output verbatim. For example, the value 3 with format "(a)" produces output "(c)".</p>

<p>It is also possible to use xsl:number to format a number obtained from an expression. This is achieved using the value attribute of the xsl:number element. If this attribute is present, the count, level, and from attributes are ignored.</p>

<p>With large numbers, the digits may be split into groups. For example, specify grouping-size="3" and grouping-separator="/" to have the number 3000000 displayed as "3/000/000".</p>

<p>Negative numbers are always output in conventional decimal notation, regardless of the format specified.</p>

<p>Example: This example outputs the title child of an H2 element preceded by a composite number formed from the sequential number of the containing H1 element and the number of the containing H2 element.</p>

<div align="left">

<table border="1" width="100%" class="code">

<tr>

<td width="100%" bgcolor="#00FFFF"><pre>

<xsl:template match="H2/TITLE">

<xsl:number count="H1">.<xsl:number count="H2">

<xsl:text> </xsl:text>

<xsl:apply-templates/>

</xsl:template>

</pre>

</td>

</tr>

</table>

</div>

<hr>

<h3>xsl:otherwise</h3>

<p>The xsl:otherwise element is used within an xsl:choose element to indicate the default action to be taken if none of the other choices matches.</p>

<p>See xsl:choose.</p>

<hr>

<h3>xsl:output</h3>

<p>The xsl:output element is used to control the destination and format of the principal output. It is always a top-level element immediately below the xsl:stylesheet element.

There may be multiple `xsl:output` elements; their values are accumulated as described in the XSLT specification.

The following attributes may be specified:

`cellpadding="5"`

`<tr>`

`<td valign=top width="20%">method</td>`

`<td>This indicates the format or destination of the output. The value "xml" indicates XML output (though if disable-output-escaping is used there is no guarantee that it is well-formed).`

`A value of "html" is used for HTML output. The value "text" indicates plain text output: in this case no markup may be written to the file using constructs such as literal result elements, xsl:element,`

`xsl:attribute, or xsl:comment. The value "xx:fop" (xx is any non-default namespace)`

`indicates that output will be directed to the`

`http://xml.apache.org/fop>Formatting Object Processor (FOP) produced by James Tauber: this must be separately installed, it is not part of SAXON. Alternatively output can be directed`

`to a user-defined`

`Java program by specifying the name of the class as`

`the value of the method attribute, prefixed by`

`a namespace prefix, for example "xx:com.me.myjava.MyEmitter". The class must be`

`on the classpath, and must implement either the org.xml.sax.DocumentHandler interface, the`

`org.xml.sax.ContentHandler interface, or the`

`com.icl.saxon.output.Emitter interface. The last of these, though proprietary, is a richer interface that gives access to additional information.</td>`

`</tr>`

`<tr>`

`<td valign=top>indent</td>`

`<td>as in the XSLT spec: values "yes" or "no" are accepted. The indentation algorithm is different for HTML and XML. For HTML it avoids outputting extra space before or after an inline element, but will indent text as well as tags, except in elements such as PRE and SCRIPT. For XML, it avoids outputting extra whitespace except between two tags. The emphasis is on conformance rather than aesthetics!</td>`

`</tr>`

`<tr>`

`<td valign=top>version</td>`

`<td>Determines the version of XML or HTML to be output. Currently this is documentary only.</td>`

`</tr>`

`<tr>`

`<td valign=top>encoding</td>`

`<td>A character encoding, e.g. iso-8859-1 or utf-8. The value must be one recognised`

both by the Java run-time system and by Saxon itself: the encoding names that Saxon recognises are ASCII, US-ASCII, iso-8859-1, utf-8, utf8, KOI8R, cp1251. It is used for three distinct purposes: to control character conversion

by the Java I/O routines; to determine which characters will be represented as character entities; and to document the encoding in the output file itself. The default (and fallback) is utf-8.</td>

</tr>

<tr>

<td valign=top>media-type</td>

<td>For example, "text/xml" or "text/html". This is largely documentary. However, the value assigned is passed back to the calling application in the OutputDetails object, where it can be accessed using the getMediaType() method. The supplied servlet application SaxonServlet uses

this to set the media type in the HTTP header.</td>

</tr>

<tr>

<td valign=top>doctype-system</td>

<td>This is used only for XML output: it is copied into the DOCTYPE declaration as the system identifier</td>

</tr>

<tr>

<td valign=top>doctype-public</td>

<td>This is used only for XML output: it is copied into the DOCTYPE declaration as the public identifier. It is ignored if there is no system identifier.</td>

</tr>

<tr>

<td valign=top>omit-xml-declaration</td>

<td>The values are "yes" or "no".

For XML output this controls whether an xml declaration should be output; the default is "no".

</td>

</tr>

<tr>

<td valign=top>standalone</td>

<td>This is used only for XML output: if it is present, a standalone attribute is included in the XML declaration, with the value "yes" or "no".</td>

</tr>

<tr>

<td valign=top>cdata-section-elements</td>

<td

valign=top>This is used only for XML output. It is a whitespace-separated list of element names. Character data belonging to these output elements will be written within CDATA sections.</td></tr>

</table>

<hr>

<h3>xsl:param</h3>

<p>The xsl:param element is used to define a formal parameter to a template, or to the stylesheet.</p>

<p>As a template parameter, it must be used as an immediate child of the xsl:template element. As a stylesheet parameter, it must be used as an immediate child of the xsl:stylesheet element.</p>

<p>There is a mandatory attribute, name, to define the name of the parameter. The default value of the parameter may be defined either by a select attribute, or by the contents of the xsl:param element, in the same way as for xsl:variable. The default value is ignored if an actual parameter is supplied with the same name.</p>

<hr>

<h3>xsl:preserve-space</h3>

<p>The <xsl:preserve-space> element is used at the top level of the stylesheet to define elements in the source document for which white-space nodes are significant and should be retained.</p>

<p>The elements attribute is mandatory, and defines a space-separated list of element names. The value "*" may be used to mean "all elements"; in this case any elements where whitespace is not to be preserved may be indicated by an xsl:strip-space element.</p>

<hr>

<h3>xsl:processing-instruction</h3>

<p>The xsl:processing-instruction element can appear anywhere within an xsl:template. It causes an XML processing instruction to be output.</p>

<p>There is a mandatory name attribute which gives the name of the PI. This attribute is interpreted as an <i>attribute value template</i>, so it may contain string expressions within curly braces.</p>

<p>The content of the xsl:processing-instruction element is expanded to form the data part of the PI.<p>

<p>For example:</p>

<p>

```
<table border="1" width="100%" class="code">
```

```
<tr>
```

```
<td width="100%" bgcolor="#00FFFF"><font FACE="Courier New" SIZE="3"><pre>
```

```
&lt;xsl:processing-instruction name="submit-invoice"&gt;version="1.0"&lt;/xsl:processing-instruction&gt;
```

```
</pre></font></td>
```

```
</tr>
```

```
</table>
```

```
</div>
```

<p>Note that special characters occurring within the PI text will <i>not</i> be escaped.</p>

<hr>

<h3>xsl:sort</h3>

<p>The xsl:sort element is used within an xsl:for-each or xsl:apply-templates or saxon:group element to indicate the order in which the selected elements are processed.</p>

<p>The select attribute (default value ".") is a string expression that calculates the sort key.</p>

<p>The order attribute (values "ascending" or "descending", default "ascending") determines the sort order. There is no control over language, collating sequence, or data type.</p>

<p>The data-type attribute (values "text" or "number") determines whether collating is based

on alphabetic sequence or numeric sequence.</p>

<p>The case-order attribute (values "upper-first" and "lower-first") is relevant only for data-type="text"; it determines whether uppercase letters are sorted before their lowercase equivalents, or vice-versa.</p>

<p>The value of the lang attribute can be an ISO language code such as "en" (English) or "de" (German). It determines the algorithm used for alphabetic collating. The default is based on the Java system locale. The only collating sequence supplied with the SAXON product is "en" (English), but other values may be supported by writing a user-defined comparison class. If no comparison class is found for the specified language, a default algorithm is used which simply sorts according to Unicode binary character codes. The value of lang does not have to be a recognized language code, it is also possible to use values such as "month" to select a data-type-specific collating algorithm.</p>

<p>Several sort keys are allowed: they are written in major-to-minor order.</p>

<p>Example 1: sorting with xsl:apply-templates. This example shows a template for a BOOKLIST element which processes all the child BOOK elements in order of their child AUTHOR elements; books with the same author are in descending order of the DATE attribute.</p>

```
<table border="1" width="100%" class="code">
<tr>
<td width="100%" bgcolor="#00FFFF"><font FACE="Courier New" SIZE="3"><pre>
<!--xsl:template match="BOOKLIST">
<h2>
<xsl:apply-templates select="BOOK">
<xsl:sort select="AUTHOR"/>
<xsl:sort select="@DATE" order="descending" lang="GregorianDate"/>
</xsl:apply-templates>
</h2>
</xsl:template></pre>
</font></td>
</tr>
</table>
</div><font SIZE="2">
</font>
```

<p>Example 2: sorting with xsl:for-each. This example also shows a template for a BOOKLIST element which processes all the child BOOK elements in order of their child AUTHOR elements.</p>

```
<table border="1" width="100%" class="code">
<tr>
<td width="100%" bgcolor="#00FFFF"><font FACE="Courier New" SIZE="3"><pre>
<!--xsl:template match="BOOKLIST">
```

```

<h2>
  <xsl:for-each select="BOOK">
    <xsl:sort select="AUTHOR"/>
    <p>AUTHOR: <xsl:value-of select="AUTHOR"></p>
    <p>TITLE: <xsl:value-of select="TITLE"></p>
    <hr/>
  </xsl:for-each>
</h2>
</xsl:template>
</font></td>
</tr>
</table>
</div><font SIZE="2">
</font>

```

<hr>

<h3>xsl:script</h3>

<p>The <xsl:script> element is used at the top level of the stylesheet to define the implementation of extension functions. The element was defined in the draft XSLT 1.1 specification of 8 December 2000. It is available only when the <code>xsl:stylesheet</code> element specifies a value other than <code>version="1.0"</code>.</p>

<p><i>Note: XSLT 2.0 subsequently deleted this element, and with it, all attempts to standardize bindings to extension functions.</i></p>

<p>The language attribute is mandatory, and must take the value "java". The values "javascript", "ecmascript", or a QName are also permitted, but in this case Saxon ignores the xsl:script element.</p>

<p>The implements-prefix attribute is mandatory, its value must be a namespace prefix that maps to the same namespace URI as the prefix used in the extension function call.</p>

<p>The src attribute is mandatory for language="java", its value must take the form "java:fully.qualified.class.Name", for example "java:java.util.Date". It defines the class containing the implementation of extension functions that use this prefix.</p>

<p>The archive attribute is optional, its value is a space-separated list of URLs of folders or JAR files that will be searched to find the named class. If the attribute is omitted, the class is sought on the classpath.</p>

<p>The element name saxon:script may be used as a synonym for xsl:script ("saxon" being the conventional prefix for the namespace "http://icl.com/saxon"). Using the synonym enables you to define an implementation which Saxon will use, but other processors will ignore. But it's simpler to avoid using this element altogether, and instead to use a namespace URI that identifies the extension function directly, as described in Extensibility.</p>

<hr>

<h3>xsl:strip-space</h3>

<p>The <xsl:strip-space> element is used at the top level of the stylesheet to define elements in the source document for which white-space nodes are insignificant and should be removed from the tree before processing.</p>

<p>The elements attribute is mandatory, and defines a space-separated list of element names. The value "*" may be used to mean "all elements"; in this case any elements where whitespace is not to be stripped may be indicated by an xsl:preserve-space element.</p>

<hr>

<h3>xsl:stylesheet</h3>

<p>The xsl:stylesheet element is always the top-level element of an XSL stylesheet. The name xsl:transform may be used as a synonym.</p>

<p>The following attributes may be specified:</p>

<table cellpadding="5">

<tr>

<td valign=top>version</td>

<td>Mandatory. A value other than "1.0" invokes forwards compatibility mode.</td>

</tr>

<tr>

<td valign=top>saxon:trace</td>

<td>Value "yes" or "no": default no. If set to "yes", causes activation of templates to be traced on System.err for diagnostic purposes. The value may be overridden

by specifying a `saxon:trace` attribute on the individual template.

The `xsl:template` element defines a processing rule for source elements or other nodes of a particular type.

The type of node to be processed is identified by a pattern, written in the mandatory `match` attribute. The most common form of pattern is simply an element name. However, more complex patterns may also be used:

The full syntax of patterns is given in [XSLT Pattern Syntax](patterns.html)

The following examples show some of the possibilities:

--

--

Pattern

Meaning

--

--

XXX

Matches any element whose name (tag) is XXX

--

--

*

Matches any element

--

--

XXX/YYY

Matches any YYY element whose parent is an XXX
--

--

--

XXX/YYY

<p><td WIDTH="50%" VALIGN="TOP">Matches any YYY element that has an ancestor named XXX</td></p>
</tr>
<tr>
<p><td WIDTH="50%" VALIGN="TOP">*/XXX</td></p> <p><td WIDTH="50%" VALIGN="TOP">Matches any XXX element that is immediately below the root (document) element</td></p>
</tr>
<tr>
<p><td WIDTH="50%" VALIGN="TOP">*[@ID]</td></p> <p><td WIDTH="50%" VALIGN="TOP">Matches any element with an ID attribute</td></p>
</tr>
<tr>
<p><td WIDTH="50%" VALIGN="TOP">XXX[1]</td></p> <p><td WIDTH="50%" VALIGN="TOP">Matches any XXX element that is the first XXX child of its parent element. (Note that this kind of pattern can be very inefficient: it is better to match all XXX elements with a single template, and then use xsl:if to distinguish them)</td></p>
</tr>
<tr>
<p><td WIDTH="50%" VALIGN="TOP">SECTION[TITLE="Contents"]</td></p> <p><td WIDTH="50%" VALIGN="TOP">Matches any SECTION element whose first TITLE child element has the value "Contents"</td></p>
</tr>
<tr>
<p><td WIDTH="50%" VALIGN="TOP">A/TITLE B/TITLE C/TITLE</td></p> <p><td WIDTH="50%" VALIGN="TOP">Matches any TITLE element whose parent is of type A or B or C</td></p>
</tr>
<tr>
<p><td WIDTH="50%" VALIGN="TOP">text()</td></p> <p><td WIDTH="50%" VALIGN="TOP">Matches any character data node</td></p>
</tr>
<tr>
<p><td WIDTH="50%" VALIGN="TOP">@*</td></p> <p><td WIDTH="50%" VALIGN="TOP">Matches any attribute</td></p>
</tr>
<tr>
<p><td WIDTH="50%" VALIGN="TOP">/</td></p> <p><td WIDTH="50%" VALIGN="TOP">Matches the document node</td></p>
</tr>
</table>

<p>The xsl:template element has an optional mode attribute. If this is present, the template will only be matched when the same mode is used in the invoking xsl:apply-templates element.</p>

<p>There is also an optional name attribute. If this is present, the template may be invoked directly using xsl:call-template. The match attribute then becomes optional.</p>

<p>If there are several xsl:template elements that all match the same node, the one that is chosen is determined by the optional priority attribute: the template with highest priority wins. The priority is written as a floating-point number; the default priority is 1. If two matching templates have the same priority, the one that appears last in the stylesheet is used.</p>

<p>The attribute saxon:trace="yes" or "no" may be applied either at the xsl:template level or at the xsl:stylesheet level (it is treated as an inherited attribute). If the value for a template is "yes", every activation of that template results in a line of output to System.err, identifying the stylesheet template and the current node in the source document, by element type and line number. Tracing only occurs if the template is activated by matching the pattern, not if the template is called by name.</p>

<p>The following example illustrates a simple XSL template for a particular element. This example causes all <code><code>ptitle</code></code> elements in the source document to be output as HTML <code><code>h2</code></code> elements.</p>

```
<div align="left">
```

```
<table border="1" width="100%" class="code">
<tr>
  <td width="100%" bgcolor="#00FFFF"><font FACE="Courier New"
  SIZE="3"><pre>
&lt;xsl:template match="&quot;ptitle&quot;"&gt;
  &lt;h2&gt;
    &lt;xsl:apply-templates/&gt;
  &lt;/h2&gt;
&lt;/xsl:template&gt;</pre>
  </font></td>
</tr>
</table>
</div>
```

```
<hr>
```

```
<h3><a name="xsl:text">xsl:text</a></h3>
```

<p>The xsl:text element causes its content to be output.</p>

<p>The main reasons for enclosing text within an xsl:text element is

to allow white space to be output.

White space nodes in the stylesheet are ignored unless they appear immediately within an `xsl:text` element.

The optional `disable-output-escaping` attribute may be set to "yes" or "no"; the default is "no". If set to "yes", special characters such as "<" and "&" will be output as themselves, not as entities. Be aware that in general this can produce non-well-formed XML or HTML. It is useful, however, when generating things such as ASP or JSP pages. Escaping may not be disabled when writing to a result tree fragment.

`<hr>`

`<h3>xsl:value-of</h3>`

The

`xsl:value-of` element evaluates an expression as a string, and outputs its value to the current output stream.

The full syntax of expressions is given in [XPath Expression Syntax](expressions.html).

The `select` attribute identifies the expression, and is mandatory.

The optional `disable-output-escaping` attribute may be set to "yes" or "no"; the default is "no". If set to "yes", special characters such as "<" and "&" will be output as themselves, not as entities. Be aware that in general this can produce non-well-formed XML or HTML. It is useful, however, when generating things such as ASP or JSP pages. Escaping may not be disabled when writing to a result tree fragment.

If the select expression is a node-set expression that selects more than one node, only the first is considered. If it selects no node, the result is an empty string.

Here are some examples of expressions that can be used in the select attribute:

```
<table BORDER="1" CELSPACING="1" CELLPADDING="7" WIDTH="590">
<tr>
  <td WIDTH="50%" VALIGN="TOP"><font SIZE="2"><b>Expression</b></font></td>
  <td WIDTH="50%" VALIGN="TOP"><font SIZE="2"><b>value</b></font></td>
</tr>
<tr>
```

```

<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">TITLE</font></td>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">The character content of the first child TITLE element if
there is one</font></td>
</tr>
<tr>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">@NAME</font></td>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">The value of the NAME attribute of the current element
if there is one</font></td>
</tr>
<tr>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">.</font></td>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">The expanded character content of the current
element</font></td>
</tr>
<tr>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">../TITLE</font></td>
<td WIDTH="50%" VALIGN="TOP"><font
SIZE="2">The expanded character content of the first TITLE child of the
parent element, if there is one</font></td>
</tr>
<tr>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">ancestor::SECTION/TITLE<i></font></td>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">The expanded character content of the first TITLE child
of the
enclosing SECTION element, if there is one</font></td>
</tr>
<tr>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">ancestor::* /TITLE<i></font></td>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">The expanded character content of the first TITLE child
of the
nearest enclosing element that has a child element named TITLE</font></td>
</tr>
<tr>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">PERSON[@ID]</font></td>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">The content of the first child PERSON element having
an ID attribute,
if there is one</font></td>
</tr>
<tr>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">*[last()]/@ID</font></td>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">The value of the ID attribute of the last child element of
any type,
if there are any </font></td>
</tr>
<tr>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">../TITLE</font></td>
<td WIDTH="50%" VALIGN="TOP"><font SIZE="2">The content of the first descendant TITLE element if

```

```

there is one</font></td>
</tr>
<tr>
  <td WIDTH="50%" VALIGN="TOP"><font SIZE="2">sum(*/@SALES)</font></td>
  <td WIDTH="50%" VALIGN="TOP"><font SIZE="2">The numeric total of the values of the SALES attributes
of all child
  elements that have a SALES attribute</font></td>
</tr>

</table>

```

```
<hr>
```

```
<h3><a name="xsl:variable">xsl:variable</a></h3>
```

<p>The xsl:variable element is used to declare a variable and give it a value. If it appears at the top level (immediately within xsl:stylesheet) it declares a global variable, otherwise it declares a local variable that is visible only within the stylesheet element containing the xsl:variable declaration.</p>

<p>The mandatory name attribute defines the name of the variable.</p>

<p>The value of the variable may be defined either by an expression within the optional select attribute, or by the contents of the xsl:variable element. In the latter case the result is technically a value of type <i>Result Tree Fragment</i>, although it may be used for most practical purposes as if it were a String. (The difference is that a Result Tree Fragment may contain element start and end tags).</p>

<p>In standard XSL, variables once declared cannot be updated. SAXON however provides a saxon:assign extension element to circumvent this restriction. SAXON also provides an extension function to convert a result tree fragment to a node-set, allowing further processing of its contents to take place.</p>

<p>The value of a variable can be referenced within an expression using the syntax \${name}.</p>

<p>Example:</p>

```
</font><div
align="left">
```

```

<table border="1" width="100%" class="code">
<tr>
  <td width="100%" bgcolor="#00FFFF"><font face="Courier New" size="3">
    <pre>
<!--xsl:variable name="title">A really exciting document</xsl:variable-->
<!--xsl:variable name="bgcolor" select="'#FFFCC'" /-->
<!--xsl:template match="/*"-->
  <!--HTML--><!--TITLE--xsl:value-of select=",$title"/--><!--/TITLE-->
  <!--BODY BGCOLOR='{$bgcolor}'-->
  ...<br>
  <!--/BODY--><!--/HTML-->
</xsl:template-->
</pre>
</font></td>
</tr>
</table>
</div><font SIZE="2">

```


<hr>

<h3>xsl:when</h3>

<p>The xsl:when element is used within an xsl:choose element to indicate one of a number of choices. It takes a mandatory parameter, test, whose value is a match pattern. If this is the first xsl:when element within the enclosing xsl:choose whose test condition matches the current element, the content of the xsl:when element is expanded, otherwise it is ignored.</p>

<hr>

<h3>xsl:with-param</h3>

<p>The xsl:with-param element is used to define an actual parameter to a template. It may be used within an xsl:call-template or an xsl:apply-templates or an xsl:apply-imports element. For an example, see the xsl:template section.</p>

<p>There is a mandatory attribute, name, to define the name

of the parameter. The value of the parameter may be defined either by a select attribute, or by the contents of the xsl:param element, in the same way as for xsl:variable.</p>

<p><i>The parameter has no effect unless the called template includes a matching xsl:param element. </i></p>

<hr>

<h2>Literal result elements</h2>

<p>Any elements in the style sheet other than those listed above are assumed to be literal result elements, and are copied to the current output stream at the position in which they occur.</p>

<p>Attribute values within literal result elements are treated as attribute value templates: they may contain string expressions enclosed between curly braces. For the syntax of string expressions, see xsl:value-of above.</p>

<p>Where the output is HTML, certain formatting elements are recognised as empty elements: these are AREA, BASEFONT, BR, COL, FRAME, HR, IMG, INPUT, ISINDEX, LINK, META, and SYSTEM (in either upper or lower case, and optionally with attributes, of course). These should be written as empty XML elements in the stylesheet, and will be written to the HTML output stream without a closing tag.</p>

<p>With HTML output, if the attribute name is the same as its value, the abbreviated form of output is used: for example if <OPTION SELECTED="SELECTED"> appears in the stylesheet, it will be output as <OPTION SELECTED>.</p>

<p>A simple stylesheet may be created by using a literal result element as the top-level element of the stylesheet. This implicitly defines a single template with a match pattern of "/". In fact, an XHTML document constitutes a valid stylesheet which will be output as a copy of itself, regardless of the contents of the source XML document.</p>

<hr>

<p align="center">Michael H. Kay
Saxonica Limited
22 June 2005</p></body></html>

Found in path(s):

* /saxon6-5-5-zip/doc/xsl-elements.html

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/*

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Notice that there is a bug in saxon documentation, the name of the PluggableCharacterSet interface is incorrectly specified as `com.icl.saxon.output.PluggableCharacterSet`, the correct name is given above.

The character mapping was obtained by conversion a character table of all non-US characters from CP852 into UNICODE entities using a simple stylesheet and saxon with the following attribute in `xsl:output`

```
saxon:character-representation="dec;dec"
```

The class was tested by reverse conversion of the generated table to native representation as well as by transformation of several texts

which use Czech and Slovak accented characters.

*/

Found in path(s):

* /saxon6-5-5-zip/source-zip/com/icl/saxon/charcode/CP852CharacterSet.java

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/**

* An enhanced SAX2 version of Microstar's Ælfréd XML parser.
* The enhancements primarily relate to significant improvements in
* conformance to the XML specification,
and SAX2 support. Performance
* has been improved. However, the Ælfréd proprietary APIs are
* no longer public. See the package level documentation for more
* information.

*

```
* <table border="1" width="100%" cellpadding="3" cellspacing="0">  
* <tr bgcolor="#ccccff">  
* <th><font size="+1">Name</font></th>  
* <th><font size="+1">Notes</font></th></tr>
```

*

```
* <tr><td colspan=2><center><em>Features ... URL prefix is  
* <b>http://xml.org/sax/features/</b></em></center></td></tr>
```

*

```
* <tr><td>(URL)/external-general-entities</td>  
* <td>Value is fixed at <em>>true</em></td></tr>  
* <tr><td>(URL)/external-parameter-entities</td>  
* <td>Value is fixed at <em>>true</em></td></tr>  
* <tr><td>(URL)/namespace-prefixes</td>  
* <td>Value defaults to <em>>false</em> (but XML 1.0 names are  
* always reported)</td></tr>
```

```
* <tr><td>(URL)/namespaces</td>
```

```
* <td>Value defaults to <em>>true</em></td></tr>
```

```
* <tr><td>(URL)/string-interning</td>
```

```
* <td>Value is fixed at <em>>true</em></td></tr>
```

```
* <tr><td>(URL)/validation</td>
```

```
* <td>Value is fixed at <em>>false</em></td></tr>
```

*

```
* <tr><td colspan=2><center><em>Handler Properties ... URL prefix is  
* <b>http://xml.org/sax/properties/</b></em></center></td></tr>
```

*

```
* <tr><td>(URL)/declaration-handler</td>
```

```
* <td>A declaration handler may be provided. Declaration of general  
* entities is exposed, but not parameter entities; none of the entity  
* names reported here will begin with "%". </td></tr>
```

```
* <tr><td>(URL)/lexical-handler</td>
```

```
* <td>A lexical handler may be provided. Entity boundaries and
```

```

* comments are not exposed; only CDATA sections and the start/end of
* the DTD (the internal subset is not detectible). </td></tr>
* </table>
*
* <p> Note that the declaration handler doesn't suffice for showing all
* the logical structure
* of the DTD; it doesn't expose the name of the root element, or the values
* that are permitted in a NOTATIONS attribute. (The former is exposed as
* lexical data, and SAX2 beta doesn't
* expose the latter.)
*
* <p> Although support for several features and properties is "built in"
* to this parser, it support all others by storing the assigned values
* and returning them.
*
* <p>This parser currently implements the SAX1 Parser API, but
* it may not continue to do so in the future.
*
* @author Written by David Megginson &lt;dmeggins@microstar.com&gt;
* (version 1.2a from Microstar)
* @author Updated by David Brownell &lt;david-b@pacbell.net&gt;
* @version $Date: 2000/02/29 00:23:50 $
* @see org.xml.sax.Parser
*/

```

Found in path(s):

```
* /saxon6-5-5-source-zip/com/icl/saxon/aelfred/SAXDriver.java
```

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```

Found in path(s):

```
* /saxon6-5-5-source-zip/com/icl/saxon/Bindery.java
```

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```

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```
* /saxon6-5-5-source-zip/com/icl/saxon/expr/NumericValue.java
```

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has been improved. However, the Ælfred proprietary APIs are

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* /saxon6-5-5-zip/doc/api/com/icl/saxon/aelfred/SAXDriver.html

1.502 jython 2.2.0

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B. HISTORY OF THE SOFTWARE

JPython was created in late 1997 by Jim Hugunin. Jim was also the primary developer while he was at CNRI. In February 1999 Barry Warsaw took over as primary developer and released JPython version 1.1.

In October 2000 Barry helped move the software to SourceForge where it was renamed to Jython. Jython 2.0 and 2.1 were developed under the Jython specific license below.

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