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(end of COPYRIGHT)
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1.2 libjpeg 6b

1.2.1 Notifications :

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1.2.2 Available under license :

The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998
==========

This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

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

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

DOCUMENTATION
ROADMAP
==========

This file contains the following sections:

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

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal
documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

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

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

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.
JPEG is intended for compressing
"real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and

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

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

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

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

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

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

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

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

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

We are required to state that

> "The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

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

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

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

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

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

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

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

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

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at
ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text
version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing
the figures.

The TIFF 6.0 file format specification can be obtained by FTP from
ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation
scheme
found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or
from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note. libtiff is available
from ftp://ftp.sgi.com/graphics/tiff/.

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

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

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

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

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

RELATED SOFTWARE
==========

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites,
notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

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

FILE FORMAT WARS
==========

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read.
(For example, none
of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

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

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

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether
SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

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

TO DO
=====

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.

1.3 slf4j 1.6.1

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1.4 grub 0.94

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1.5 unzip 6.0

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  *
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   *
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   *
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1.6 jboss-logging 3.1.1.GA

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1.7 lasso 2.5.1

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1.8 libmnl 1.0.4

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1.9 lzo 2.10

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1.10 open-ldap 2.4.46

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1.11 libwww 5.4.2

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1.12 bzip2 1.0.8

1.13 python-setuptools 41.2.0

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1.14 dmidecode 3.5

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Other developers who have contributed code are:

* Brian Langel

1.16 dmidecode 3.3

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1.17 libdaemon 0.14

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1.18 zeromq 4.2.3

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1.22 cyrus-sasl 2.1.20

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.28 fbset 2.1

1.28.1 Available under license :

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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.
^L

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated

interface definition files, plus the scripts used to control
compilation and installation of the library.

Activities other than copying, distribution and modification are not
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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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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
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License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
^L
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete

corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse

engineering for debugging such modifications.

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that

is
normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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1.31 bc 1.07

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

"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

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1. Source Code.

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

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

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

(if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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

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section 10
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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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c) You must license the entire work, as a whole, under this
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You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
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Corresponding Source fixed on a durable physical medium
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b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
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model, to give anyone who possesses the object code either (1) a
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more than your reasonable cost of physically performing this
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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in
the same way through the same place at no
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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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1.32 dc 1.4

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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

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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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[#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>`.

1.34 gcl 1.0.0+svn3058

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1.35 sqlite 3.36.0

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I would like to thank the following people (in alphabetical order):

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If I've missed anyone, it's due to oversight. Drop me a line and I'll
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Version 2.1, February 1999

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

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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the work with the complete corresponding
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* Frodo Looijaard
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Many improvements to the libsensors configuration file scanner.
* Jean Delvare
New libsensors API, and migration of sensors and sensord thereto.
Many optimizations in libsensors and sensors.
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Support for multiple configuration files in libsensors.

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```
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```

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```
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1.44 sed 4.8

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1.45 tcp-wrappers 7.6

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1.46 python 2.7.18

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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now		
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it with the complete corresponding
machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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5. A program that contains no derivative of any portion of the
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work, in isolation, is not a derivative work of the Library, and
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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.
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate
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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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1.49 websocketpp 0.8.2

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base64.cpp and base64.h

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Ren Nyffenegger rene.nyffenegger@adp-gmbh.ch

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1.51 jansson 2.13.1

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1.52 openorb 1.8.0_252

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1.54 asm 5.0.3

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

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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
 the annotation class.
   */
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java

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```
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java
*
 /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/xml/Processor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
```

jar/org/objectweb/asm/xml/SAXCodeAdapter.java
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*/
/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
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/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *            the
 method visitor to which this adapter delegates calls.
   * @param access
   *            the method's access flags (see {@link Opcodes}).
   * @param name
   *            the method's name.
   * @param desc
   *            the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/LabelNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/commons/Method.java
*
 /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/FieldWriter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
*
 /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-
jar/org/objectweb/asm/ClassVisitor.java

* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/LineNumberNode.java
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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/Constant.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/Context.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceFieldVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/ConstantPool.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/Frame.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/Type.java
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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/Handler.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/Printer.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Subroutine.java

*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/FieldNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/ClassOptimizer.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/ASMifier.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/Edge.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/FieldVisitor.java
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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/MethodVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
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/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/Item.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-

jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/MethodInsnNode.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/Opcodes.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/NameMapping.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/Attribute.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/Shrinker.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
*
/opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/ClassReader.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/ByteVector.java

* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
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 /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/Label.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/Handle.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
*
 /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/ClassWriter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/Remapper.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/MethodWriter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
*
 /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/Textifiable.java
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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/package.html
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/**
   * Constructs a new {@link Textifier}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
```

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/util/Textifier.java
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*/
```

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

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/shrink-writer.properties
* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/shrink-resize.properties
*

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* /opt/ws_local/PERMITS_SQL/1073269102_1595440672.31/0/asm-5-0-3-sources-2-jar/org/objectweb/asm/optimizer/shrink.properties

1.55 popt 1.18

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1.61 apache-http-server 2.4.46

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* httpd@ncsa.uiuc.edu
*
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install - install a program, script, or datafile
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For the test\zb.c component:

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

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

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

*/

For the expat xml parser component:

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<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
        This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="./style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet" type="text/css" href="./style/css/prettify.css"
 />
<script src="./style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="./images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar">
<p class="menu">Modules | Directives | FAQ | Glossary | <a

href="./sitemap.html">Sitemap
Apache HTTP Server Version 2.4

<img title="<-" alt="<-" src="./images/left.gif" />

Apache > HTTP Server > Documentation > Version 2.4 <h1>The Apache License, Version 2.0</h1>

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var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' <\/div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
     (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write(' Comments are disabled for this page at the moment.<\/div>');
  }
})(window, document);
//--><!]]></script>
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Modules | Directives | <a
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  prettyPrint();
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1.63 json-c 0.15

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1.67 xerces-j 2.12.2

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

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

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

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

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

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

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

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

compelled to copy the source along with the object code.

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by 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.

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

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

TERMS AND CONDITIONS

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

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

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

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1. Source Code.

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

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

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

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c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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place (gratis or for a charge), and offer equivalent access to the Corresponding Source in
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further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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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

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1.74 restlet 2.4.3

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*/
/**
* Authorizer allowing only confidential calls. Confidential
 calls typically
* come through HTTPS server connectors.
*
* @author Jerome Louvel
*/
```

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/ConfidentialAuthorizer.java

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* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Component.xsd
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*/
/**
    * Constructor.
    *
    * @param server
    * @param
 exchange
    * @param confidential
    */

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/HttpExchangeCall.java
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Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/resource/MethodAnnotationInfo.java
*
 /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/StringUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/DigesterRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/AppendableRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/ZipClientHelper.java
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*/
/** The confidentiality. */
/**
   * Constructor.
   *
    * @param schemeName
   *          The scheme name.
   * @param name
   *          The unique name.
   * @param description
   *          The description.
   * @param defaultPort
   *          The default port.
   * @param confidential
   *          The confidentiality.
   */
/**
   * Indicates if the protocol guarantees the confidentially of the messages
   * exchanged, for example via a SSL-secured connection.
   *
   * @return True if the protocol is confidential.
   */
```

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Protocol.java
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*/

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/DispositionReader.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/ExpectationWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/DateUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/SystemUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Put.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/Entity.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/DateWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/DecoderService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Validator.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/ReaderRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Template.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/Decoder.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/CorsFilter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/PreferenceWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/ssl/SslUtils.java

* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/CharacterRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/StringWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/CompositeHelper.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Authenticator.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/ChallengeRequestReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/ConverterService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Client.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/io/ReadableSelectionChannel.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/EngineClassLoader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/ChildContext.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/Conneg.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/TagWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/resource/VariantInfo.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Result.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/StatusInfo.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Tag.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Router.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/io/WriterOutputStream.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Context.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/ImmutableDate.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Range.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Dimension.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/StreamRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/VirtualHost.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/WrapperScheduledExecutorService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/component/ComponentClientDispatcher.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-

jar/org/restlet/engine/local/LocalClientHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Expectation.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/ReaderInputStream.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/HeaderConstants.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/local/ClapClientHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/ReadableRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/ByteArrayRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/RepresentationInfo.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/PreferenceReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/security/ChallengeAuthenticator.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Route.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/adapter/HttpClientHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/ServiceList.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/EncodingReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Parameter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/component/ComponentContext.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Application.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/service/ConnectorService.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/application/CorsResponseHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/representation/OutputRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/local/FileEntity.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/converter/ConverterHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/io/InputStreamChannel.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/security/SmtpPlainHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/LogService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/resource/ThrowableAnnotationInfo.java

*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/component/ClientRouter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/Method.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/HttpServerHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Response.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/io/UnclosableOutputStream.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/security/AuthenticatorHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/CallResolver.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/CookieWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/CacheDirective.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/EmptyRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/CookieSettingWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/EntityClientHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/ClientList.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/ZipEntryRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/User.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Role.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/converter/StatusInfoHtmlConverter.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/IdentClient.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Status.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/ExpectationReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/local/DirectoryServerResource.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/LocalReference.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/CorsService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/converter/ConverterUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/MediaType.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/ReferenceUtils.java
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*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/service/TunnelService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/security/MethodAuthorizer.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/data/ChallengeResponse.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/security/LocalVerifier.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Header.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Finder.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/header/MethodReader.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-
jar/org/restlet/engine/util/AlphabeticalComparator.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/Helper.java

*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Realm.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/HttpServerHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/FileRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/StatusFilter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/WebDavProtocolHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/WrapperMap.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/ApplicationHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/TemplateRoute.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/application/StrictConneg.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/SimplerFormatter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Connector.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/component/HostRoute.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/LoggerFacade.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/DimensionWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/HttpProtocolHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/CookieSettingReader.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/security/Authorizer.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/representation/StringRepresentation.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Language.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/ssl/WrapperSslServerSocketFactory.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/routing/Redirector.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/security/HttpBasicHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/ListUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/FormUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/ConnectionClosingRepresentation.java
*

/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/io/NbChannelOutputStream.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/ssl/WrapperSslSocketFactory.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/MetadataService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/Cookie.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/ReadingListener.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/HeaderUtils.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Options.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Get.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/resource/ClientInvocationHandler.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/CacheDirectiveWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/HttpUrlConnectionCall.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/ssl/DefaultSslContext.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/LogFilter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/header/EncodingWriter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/component/ComponentHelper.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/MapResolver.java
*
/opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/data/ServerInfo.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/converter/DefaultConverter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/EncoderService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/ClientAdapter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/LoggingThreadFactory.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/log/DefaultAccessLogFormatter.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/ConnegService.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/SetUtils.java
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*/
/**
    * Indicates if the call came over a confidential channel
 such as an
    * SSL-secured connection.
    *
    * @return True if the call came over a confidential channel.
    */
```

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/WrapperRequest.java
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/WrapperResponse.java
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*/
/** Indicates if the call is confidential. */
/**
   * Indicates
 if the confidentiality of the call is ensured (ex: via SSL).
   *
   * @return True if the confidentiality of the call is ensured (ex: via SSL).
   */
/**
   * Indicates if the confidentiality of the call is ensured (ex: via SSL).
   *
   * @param confidential
   *            True if the confidentiality of the call is ensured (ex: via
   *            SSL).
   */
```

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/Call.java
No license file was found, but licenses were detected in source scan.

```
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```

```
*
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*/
/**
* Optimized public-domain implementation of a Java alphanumeric
 sort.
* <p>
*
* This implementation uses a single comparison pass over the characters in a
* CharSequence, and returns as soon as a differing character is found, unless
* the difference occurs in a series of numeric characters, in which case that
* series is followed to its end. Numeric series of equal length are compared
* numerically, that is, according to the most significant (leftmost) differing
* digit. Series of unequal length are compared by their length.
* <p>
*
* This implementation appears to be 2-5 times faster than alphanumeric
* comparators based based on substring analysis, with a lighter memory
* footprint.
* <p>
*
* This alphanumeric comparator has approximately 20%-50% the performance of the
* lexical String.compareTo() operation. Character sequences without numeric
* data are compared more quickly.
* <p>
*
* Dedicated to the public domain by the original author:
* http://creativecommons.org/licenses/publicdomain/
*
* @author Rob Heittman,
 <a href="http://www.solertium.com">Solertium
*        Corporation</a>
*/
```

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/util/AlphaNumericComparator.java
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```
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*/
/**
* Application service capable of running and scheduling
 tasks asynchronously.
* The service instance returned will not invoke the runnable task in the
* current thread.<br>
* <br>
* In addition to allowing pooling, this method will ensure that the threads
* executing the tasks will have the thread local variables copied from the
* calling thread. This will ensure that call to static methods like
* {@link Application#getCurrent()} still work.<br>
* <br>
* Also, note that this executor service will be shared among all Restlets and
* Resources that are part of your context. In general this context corresponds
* to a parent Application's context. If you want to have your own service
* instance, you can use the {@link TaskService#wrap(ScheduledExecutorService)}
* method to ensure that thread local variables are correctly set.
*
* @author Jerome Louvel
* @author Doug Lea (docs of ExecutorService in public domain)
* @author Tim Peierls
*/
```

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/service/TaskService.java
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*/
/**
    * Sets the reference comparator based on the more friendly
 "Alphanum
    * Algorithm" created by David Koelle. The internal implementation used is
    * based on an optimized public domain implementation provided by Rob
    * Heittman from the Solertium Corporation.
    *
    * @see <a href="http://www.davekoelle.com/alphanum.html">The original
    *      Alphanum Algorithm from David Koelle</a>
    * @see #setComparator(Comparator)
    */
```

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Directory.java
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*/
/**
    * Implemented based on the {@link Protocol#isConfidential()}
 method for the
    * request's protocol returned by {@link #getProtocol()};
    */
```

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Request.java
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*/
/**
    * Indicates if this service is acting in HTTP or HTTPS
 mode.
    *
    * @param confidential
    *            True if this service is acting in HTTP or HTTPS mode.
    */
```

Found in path(s):

* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/connector/NetServerHelper.java
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Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/adapter/ServerCall.java
*
 /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/engine/resource/AnnotationUtils.java
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*/
/**
    * Indicates if the message was or will be exchanged
 confidentially, for
    * example via a SSL-secured connection.
    *
    * @return True if the message is confidential.
    * @see Request#isConfidential()
    */
```

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/resource/Resource.java
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* https://restlet.talend.com/
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*/
/**
```

```
    * Indicates if the message was or will be exchanged
 confidentially, for
    * example via a SSL-secured connection.
    *
    * @return True if the message is confidential.
    */
```

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/Message.java
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* limitations, transferable or non-transferable, directly at
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*/
/**
* Resolves a name into a value. By default, the {@link #createResolver(Map)}
 * static method can adapt a Java map into a resolver. Another useful method is
* {@link #createResolver(Request, Response)}, which can expose a Restlet call
* into a compact data model, with the following variables:
*
* <table>
* <tr>
* <th>Model property</th>
* <th>Variable name</th>
* <th>Content type</th>
* </tr>
* <tr>
* <td>request.confidential</td>
```

* <td>c</td>
* <td>boolean (true|false)</td>
* </tr>
* <tr>
* <td>request.clientInfo.address</td>
* <td>cia</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.clientInfo.upstreamAddress</td>
* <td>ciua</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.clientInfo.agent</td>
* <td>cig</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.challengeResponse.identifier</td>
* <td>cri</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.challengeResponse.scheme</td>
* <td>crs</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.date</td>
* <td>d</td>
* <td>Date (HTTP format)</td>
 * </tr>
* <tr>
* <td>request.entity.characterSet</td>
* <td>ecs</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.entity.characterSet</td>
* <td>ECS</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.entity.encoding</td>
* <td>ee</td>
* <td>String</td>
* </tr>

* <tr>
* <td>response.entity.encoding</td>
* <td>EE</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.entity.expirationDate</td>
* <td>eed</td>
* <td>Date (HTTP format)</td>
* </tr>
* <tr>
* <td>response.entity.expirationDate</td>
* <td>EED</td>
* <td>Date (HTTP format)</td>
* </tr>
* <tr>
* <td>request.entity.language</td>
* <td>el</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.entity.language</td>
* <td>EL</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.entity.modificationDate</td>
* <td>emd</td>
* <td>Date (HTTP format)</td>
* </tr>
* <tr>
* <td>response.entity.modificationDate</td>
* <td>EMD</td>
* <td>Date (HTTP format)</td>
* </tr>
* <tr>
* <td>request.entity.mediaType</td>
 * <td>emt</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.entity.mediaType</td>
* <td>EMT</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.entity.size</td>
* <td>es</td>

* <td>Integer</td>
* </tr>
* <tr>
* <td>response.entity.size</td>
* <td>ES</td>
* <td>Integer</td>
* </tr>
* <tr>
* <td>request.entity.tag</td>
* <td>et</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.entity.tag</td>
* <td>ET</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.referrerRef</td>
* <td>f*</td>
* <td>Reference (see table below variable name sub-parts)</td>
* </tr>
* <tr>
* <td>request.hostRef</td>
* <td>h*</td>
* <td>Reference (see table below variable name sub-parts)</td>
* </tr>
* <tr>
* <td>request.method</td>
* <td>m</td>
* <td>String</td>
* </tr>
* <tr>
* <td>request.rootRef</td>
* <td>o*</td>
* <td>Reference (see table below variable name sub-parts)</td>
* </tr>
* <tr>
* <td>request.protocol</td>
* <td>p</td>
* <td>String</td>
 * </tr>
* <tr>
* <td>request.resourceRef</td>
* <td>r*</td>
* <td>Reference (see table below variable name sub-parts)</td>
* </tr>
* <tr>

* <td>response.redirectRef</td>
* <td>R*</td>
* <td>Reference (see table below variable name sub-parts)</td>
* </tr>
* <tr>
* <td>response.status</td>
* <td>S</td>
* <td>Integer</td>
* </tr>
* <tr>
* <td>response.serverInfo.address</td>
* <td>SIA</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.serverInfo.agent</td>
* <td>SIG</td>
* <td>String</td>
* </tr>
* <tr>
* <td>response.serverInfo.port</td>
* <td>SIP</td>
* <td>Integer</td>
* </tr>
* </table>
*
*
* Below is the list of name sub-parts, for Reference variables, that can
* replace the asterix in the variable names above:
*
*
* <table>
* <tr>
* <th>Reference property</th>
* <th>Sub-part name</th>
* <th>Content type</th>
* </tr>
* <tr>
* <td>authority</td>
* <td>a</td>
* <td>String</td>
* </tr>
* <tr>
* <td>baseRef</td>
 * <td>b*</td>
* <td>Reference</td>
* </tr>
* <tr>

```
* <td>targetRef</td>
* <td>t*</td>
* <td>Reference</td>
* </tr>
* <tr>
* <td>relativePart</td>
* <td>e</td>
* <td>String</td>
* </tr>
* <tr>
* <td>fragment</td>
* <td>f</td>
* <td>String</td>
* </tr>
* <tr>
* <td>hostIdentifier</td>
* <td>h</td>
* <td>String</td>
* </tr>
* <tr>
* <td>identifier</td>
* <td>i</td>
* <td>String</td>
* </tr>
* <tr>
* <td>path</td>
* <td>p</td>
* <td>String</td>
* </tr>
* <tr>
* <td>query</td>
* <td>q</td>
* <td>String</td>
* </tr>
* <tr>
* <td>remainingPart</td>
* <td>r</td>
* <td>String</td>
* </tr>
* </table>
*
* @author Jerome Louvel
*/
```

Found in path(s):
* /opt/cola/permits/1122075426_1629910343.42/0/org-restlet-2-4-3-sources-jar/org/restlet/util/Resolver.java

1.75 saaj 1.4

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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/castor/CastorEnumTypeDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/NamespaceSelector.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/castor/CastorEnumTypeSerializer.java
*
 /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/FactoryProperty.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/castor/CastorEnumTypeSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/SimpleListSerializerFactory.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDConstants.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/ArraySerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/ArraySerializerFactory.java
*
 /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDService.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/castor/CastorEnumTypeDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/SimpleListDeserializer.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/MixedContentType.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/SimpleListDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/AnyContentType.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDArrayMapping.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDBeanMapping.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/server/ServletEndpointContext.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/TypeMapping.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Handler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/handler/HandlerChain.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/PlainTextDataSource.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/HexSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/InputStreamBody.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/BackslashUtil.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/enum/Style.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/SymTabEntry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/VectorDeserializerFactory.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/providers/WSDDComProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/FactoryFinder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/PlainTextDataHandlerDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/EnumSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/handler/soap/SOAPMessageContext.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/configuration/XMLStringProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPPart.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/security/servlet/ServletSecurityProvider.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/security/servlet/ServletAuthenticatedUser.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/constants/Style.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/TypeMappingImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/MapSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/HexBinary.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/MapDeserializer.java

* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/ArrayDeserializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/gen/NoopFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/VectorDeserializer.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/script/BSF.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/NonPositiveInteger.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaInterfaceWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/HTTPConstants.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/uuid/UUIDGenFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/MapDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/session/SimpleSession.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPElement.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/local/LocalResponder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/handlers/JAXRPCHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/JAFDataHandlerDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/encoding/AbstractXMLEncoder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/VectorSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/Token.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/CollectionTE.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/security/simple/SimpleSecurityProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/LongHolder.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/toJava/JavaBeanWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/UnsignedByte.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/TimeSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/attachments/OctetStreamDataSource.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/AxisClientProxy.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/NMToken.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/mail/MailConstants.java

* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/encoding/Deserializer.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/JAFDataHandlerSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/SocketHolder.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SOAPHeaderElement.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/SimpleAxisServer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/Part.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/rpc/holders/StringHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/javax/xml/rpc/encoding/TypeMappingRegistry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/TypeMappingRegistry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/soap/SOAPService.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/DeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaUndeployWriter.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDDocument.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/UnsignedLong.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/MD5AttachHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/Base64Serializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/security/SecurityProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/server/AxisServerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/local/LocalSender.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/javax/xml/soap/SOAPBody.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Notation.java
*

/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/CLUtil.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/threadpool/ThreadPool.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/attachments/AttachmentsImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/BaseSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/SimpleProvider.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/EnvelopeBuilder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/i18n/RB.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/handlers/SOAPMonitorHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/TransportClientProperties.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/QSWSDLHandler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/deployment/wsdd/WSDDParameter.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/client/AxisClient.java
*
 /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/AxisServlet.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/XMLUtils.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaBuildFileWriter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/ByteArray.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/DeserializationContext.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/wsdl/toJava/JavaGeneratorFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/gen/Parser.java

* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/wsdl/symbolTable/SchemaUtils.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/WSDDServiceWrapper.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/DeploymentAdministrator.java
*

/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/WSDDTransportWrapper.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/DeploymentQueryMBean.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/ServiceAdmin.java
*
 /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/ServiceAdministratorMBean.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/Registrar.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/http/AutoRegisterServlet.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/management/jmx/ServiceAdministrator.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDJAXRPCHandlerInfoChain.java
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 /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/Handler.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConnectorManager.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSTransport.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConnectorFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/JMSVendorAdapterFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/MapUtils.java

* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/SimpleJMSListener.java
*
 /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/SonicMQVendorAdapter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSURLConnection.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/JNDIVendorAdapter.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/JMSConnector.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/TopicConnector.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/jms/JMSVendorAdapter.java
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* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/transport/jms/SimpleJMSWorker.java
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*/
```

Found in path(s):
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-

jar/org/apache/axis/deployment/wsdd/WSDDNonFatalException.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/SimpleValueSerializer.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/description/ServiceDesc.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/UnsignedByteHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/utils/bytecode/ChainedParamReader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/soap/SOAPConnectionImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/DurationHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/JWSClassLoader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/description/OperationDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/WSDDEngineConfiguration.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/EngineConfigurationFactoryFinder.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/SecureSocketFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/URIHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/YearMonthHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/description/JavaServiceDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/TimeHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/castor/CastorSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/TokenHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/UnsignedLongHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/SocketFactory.java
*
/opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/ServletEndpointContextImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Year.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/EngineConfigurationFactoryDefault.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/ServletEngineConfigurationFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/CommonsHTTPClientPropertiesFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPHeader.java

* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/Detail.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPFaultElement.java
*
 /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/description/AttributeDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/MonthHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/NonNegativeIntegerHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/configuration/BasicClientConfig.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/YearHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/DateHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/PositiveIntegerHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/AxisServiceConfigImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/deployment/wsdd/WSDDFault.java
*
 /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/description/FieldDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/MonthDay.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/collections/SequencedHashMap.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/components/net/SocketFactoryFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/configuration/EngineConfigurationFactoryServlet.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAPConnectionFactoryImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/SimpleSerializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAPConstants.java
*
 /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/Text.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/EngineConfiguration.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/DayHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/OctetStreamHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/MonthDayHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/SessionUtils.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/ConfigurationException.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/UnsignedShortHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/holders/HexBinaryHolder.java

*
 /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/soap/SOAP11Constants.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/transport/http/AxisServletBase.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/SOAPBody.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/NonPositiveIntegerHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/soap/SOAP12Constants.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/NegativeIntegerHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/message/SOAPFaultReasonBuilder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/soap/MessageFactoryImpl.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/soap/SOAPFactoryImpl.java
*
 /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Month.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/encoding/ser/castor/CastorDeserializerFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/utils/bytecode/ClassReader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/UnsignedIntHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/holders/NormalizedStringHolder.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/YearMonth.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/utils/bytecode/ParamReader.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/BasicServerConfig.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/components/net/TransportClientPropertiesFactory.java
*
 /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Day.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/description/TypeDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/types/Time.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/EngineConfigurationFactory.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/description/ElementDesc.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/message/DetailEntry.java
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-
jar/org/apache/axis/configuration/DefaultEngineConfigurationFactory.java
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/*

```
* XmlBeanSerializer.java
*
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*
* Original author: Jonathan Colwell
*/
```

Found in path(s):
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/encoding/ser/xbeans/XmlBeanSerializer.java
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```
/*
* ClasspathUtils.java
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*
*/
```

Found in path(s):
* /opt/cola/permits/1122085880_1611198607.29/0/axis-1-4-sources-jar/org/apache/axis/utils/ClasspathUtils.java

1.76 ebtables 2.0.11

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1.77 libcap-ng 0.8.2

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1.82 bc 1.07.1

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1.83 dosfs-tools 4.2

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PCRE is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language.

This is JavaScriptCore's variant of the PCRE library. While this library
started out as a copy of PCRE, many of the features of PCRE have been
removed.

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* Jean Delvare
New libsensors API, and migration of sensors and sensord thereto.
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1.96 xml-commons-resolver 1.2

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<signature of Ty Coon>, 1 April 1989
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1.101 ply 3.11

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PLY (Python Lex-Yacc) Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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Introduction
============

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.
  If you know how to use these tools in C, you will find PLY
  to be similar.

- PLY provides *very* extensive error reporting and diagnostic
  information to assist in parser construction. The original
  implementation was developed for instructional purposes. As
  a result, the system tries to identify the most common types
  of errors made by novice users.

- PLY provides full support for empty productions, error recovery,
  precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient,
  better suited to large grammars, and which has a number of nice
  properties when dealing with syntax errors and other parsing problems.
  Currently, PLY builds its parsing tables using the LALR(1)
  algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers.
  This greatly simplifies the task of parser construction since it reduces
  the number of files and eliminates the need to run a separate lex/yacc
  tool before running your program.

- PLY can be used to build parsers for "real" programming languages.
  Although it is not ultra-fast due to its Python implementation,
  PLY can be used to parse grammars consisting of several hundred
  rules (as might be found for a language like C). The lexer and LR
  parser are also reasonably efficient when parsing typically
  sized programs. People have used PLY to build parsers for
  C, C++, ADA, and other real programming languages.

How to Use
==========

PLY consists of two files : lex.py and yacc.py. These are contained
within the 'ply' directory which may also be used as a Python package.
To use PLY, simply copy the 'ply' directory to your project and import
lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py
individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install
ply using distutils.

The file doc/ply.html contains complete documentation on how to use
the system.

The example directory contains several different examples including a
PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
============
PLY requires the use of Python 2.6 or greater. However, you should
use the latest Python release if possible. It should work on just
about any platform. PLY has been tested with both CPython and Jython.
It also seems to work with IronPython.

Resources
=========
More information about PLY can be obtained on the PLY webpage at:

```
http://www.dabeaz.com/ply
```

For a detailed overview of parsing theory, consult the excellent
book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and
Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown
may also be useful.

The GitHub page for PLY can be found at:

```
https://github.com/dabeaz/ply
```

An old and

relatively inactive discussion group for PLY is found at:

http://groups.google.com/group/ply-hack

Acknowledgments
==========
A special thanks is in order for all of the students in CS326 who
suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x.
Andrew Waters and Markus Schoepflin were instrumental in reporting bugs
and testing a revised LALR(1) implementation for PLY-2.0.

Special Note for PLY-3.0
==========
PLY-3.0 the first PLY release to support Python 3. However, backwards
compatibility with Python 2.6 is still preserved. PLY provides dual
Python 2/3 compatibility by restricting its implementation to a common
subset of basic language features. You should not convert PLY using
2to3--it is not necessary and may in fact break the implementation.

Example
=======

Here is a simple example showing a PLY implementation
of a calculator
with variables.

```
# -----------------------------------------------------------------------------
# calc.py
#
# A simple calculator with variables.
# -----------------------------------------------------------------------------

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
    )

# Tokens

t_PLUS    = r'\+'
t_MINUS   = r'-'
t_TIMES   = r'\*'
t_DIVIDE  = r'/'
```

```
  t_EQUALS  = r'='
  t_LPAREN  = r'\('
  t_RPAREN  = r'\)'
  t_NAME    = r'[a-zA-Z_][a-zA-Z0-9_]*'

  def t_NUMBER(t):
     r'\d+'
     t.value = int(t.value)
     return t

  # Ignored characters
  t_ignore = " \t"

  def t_newline(t):
     r'\n+'
     t.lexer.lineno += t.value.count("\n")

  def t_error(t):
     print("Illegal character '%s'" % t.value[0])
     t.lexer.skip(1)

  # Build the lexer
  import ply.lex as lex
  lex.lex()

  # Precedence
rules for the arithmetic operators
  precedence = (
     ('left','PLUS','MINUS'),
     ('left','TIMES','DIVIDE'),
     ('right','UMINUS'),
     )

  # dictionary of names (for storing variables)
  names = { }

  def p_statement_assign(p):
     'statement : NAME EQUALS expression'
     names[p[1]] = p[3]

  def p_statement_expr(p):
     'statement : expression'
     print(p[1])

  def p_expression_binop(p):
     '''expression : expression PLUS expression
                   | expression MINUS expression
                   | expression TIMES expression
```

```
                | expression DIVIDE expression'''
    if p[2] == '+'  : p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

  def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

  def p_expression_group(p):
    'expression : LPAREN
 expression RPAREN'
    p[0] = p[2]

  def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

  def p_expression_name(p):
    'expression : NAME'
    try:
       p[0] = names[p[1]]
    except LookupError:
       print("Undefined name '%s'" % p[1])
       p[0] = 0

  def p_error(p):
    print("Syntax error at '%s'" % p.value)

  import ply.yacc as yacc
  yacc.yacc()

  while True:
    try:
       s = raw_input('calc > ')   # use input() on Python 3
    except EOFError:
       break
    yacc.parse(s)
```

Bug Reports and Patches
=======================
My goal with PLY is to simply have a decent lex/yacc implementation
for Python. As a general rule, I don't spend huge amounts of time
working on it unless I receive very specific bug reports and/or
patches to fix problems. I also try to incorporate submitted feature
requests and enhancements into each new version. Please visit the PLY

github page
 at https://github.com/dabeaz/ply to submit issues and pull
requests. To contact me about bugs and/or new features, please send
email to dave@dabeaz.com.

-- Dave

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* /opt/cola/permits/1160874329_1620411264.5/0/dabeaz-ply-3-11-0-g0f398b7-1-tar-gz/dabeaz-ply-0f398b7/README.md
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1.102 pexpect 4.8.0

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1.103 pexpect 4.7.0

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1.104 tar 1.34

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

d) If distribution of the work is made by offering access to copy

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.110 libtirpc 1.3.2

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1.111 kmod 29

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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
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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
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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
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treats it as such.

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

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

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

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

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

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

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

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

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

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

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

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materials or that you have already sent this user a copy.

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1.115 rpcbind 1.2.6

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1.116 python-chardet 4.0.0

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use
the Lesser General Public License.

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

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

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

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

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

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

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

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If distribution of object code is made by offering access to copy
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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
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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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
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1.117 tcl 8.6.11

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1.118 xinetd 2.3.15.4

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1.120 acpid 2.0.33

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1.121 mpdecimal 2.5.1

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1.123 grep 3.7

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1.125 ncurses 6.3

1.125.1 Available under license :

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1.126 libgcrypt 1.9.4

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- cipher/sha512-avx2-bmi2-amd64.S
- cipher/sha512-ssse3-amd64.S
- cipher/sha512-ssse3-i386.c

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1.127 i2c-tools 4.3

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source

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1.128 common-base 1.0

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* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/mq_coroutine_server.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/commandd/tests/test.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/util/socket_util.py
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* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/base_message_client.py

* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/name_server.py
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* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/provisioner_service.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/transfer_proto/http.py
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* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/base_message_server.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/commandd/__init__.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/name_svc_util.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/util/auth_util.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/util/clear_password_fields.py
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* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/commandd/daemon.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-

1.0/common_base/transfer_proto/ftp.py
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/multi_connect_client.py
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/opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/common.pyo: binary file matches
/opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/common_base/messageq/multi_connect_base.pyo: binary file matches

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* /bin/grep
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Metadata-Version: 1.0
Name: common-base
Version: 1.0
Summary: common-base
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/1236002008_1737118425.2266417/0/common-base-1-0-tar-gz/common-base-1.0/EGG-INFO/PKG-INFO

1.129 log4j-api 2.17.1

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1.130 apache-log4j 2.17.1

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*/
```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/RequestEntity.java
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```
/*
* BufferBody.java February 2012
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*/
```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/BufferBody.java

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

```
/*
* FormatException.java May 2007
*
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*/
```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/util/FormatException.java
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* TransportSource.java February 2007
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*/
```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/TransportSource.java
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```
/*
* QueryCombiner.java May 2003
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*/
```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/QueryCombiner.java
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```
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* PartEntryConsumer.java February 2007
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*/
```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/PartEntryConsumer.java
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```
/*
* KeyMap.java May 2007
```

```
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```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/util/KeyMap.java
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```
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* Path.java February 2001
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```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/Path.java
No license file was found, but licenses were detected in source scan.

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/*
* ResponseBuffer.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/ResponseBuffer.java
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* FixedConsumer.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/FixedConsumer.java
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* PartSeries.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/PartSeries.java
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```
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* SecureNegotiator.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/SecureNegotiator.java
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* Container.java February 2001
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* ContentConsumer.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/ContentConsumer.java
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* SocketWriter.java February 2008
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* LeaseMap.java May 2004
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* Task.java February 2007
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* ContractQueue.java May 2004
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/util/lease/ContractQueue.java
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* Distributor.java February 2007
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```
*/
```

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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/reactor/Distributor.java
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* RequestConsumer.java February 2001
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Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/RequestConsumer.java
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* Producer.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/Producer.java
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* ResponseWrapper.java February 2001
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* Acceptor.java October 2002
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Found in path(s):
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jar/org/simpleframework/transport/connect/SocketAcceptor.java
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* Query.java February 2001
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* SocketFlusher.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/SocketFlusher.java
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* ActionQueue.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/reactor/ActionQueue.java
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* ConsumerFactory.java February 2007
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```
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* CancelAction.java February 2007
```

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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/reactor/CancelAction.java
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* Notifier.java February 2009
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* SecureTransport.java February 2007
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```

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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/TransportException.java
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```
/*
* BufferAllocator.java February 2001
*
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/util/buffer/BufferAllocator.java
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* PacketAllocator.java February 2008
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/PacketAllocator.java
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* Timer.java November 2012
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/Timer.java
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* EmptyProducer.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/EmptyProducer.java
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* Dispatcher.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/Dispatcher.java
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/Dispatcher.java
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* PacketBuilder.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/PacketBuilder.java
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* PoolFactory.java February 2009
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/util/thread/PoolFactory.java
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* DateParser.java February 2001
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* BufferCompacter.java February 2008
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* Body.java February 2007
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* BodyConsumer.java February 2007
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* SocketTrace.java February 2012
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* HeaderConsumer.java February 2007
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* PartSeriesConsumer.java February 2007
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* TransportCursor.java February 2007
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* Negotiator.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/Negotiator.java
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jar/org/simpleframework/util/thread/Scheduler.java
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/*
* TransportEvent.java October 2012
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* CookieParser.java February 2001
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* FixedProducer.java February 2007
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* ResponseMessage.java February 2001
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```
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* ConnectionEvent.java October 2012
```

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* Method.java May 2012
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* BoundaryConsumer.java February 2007
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* PoolExecutor.java February 2007
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* Negotiation.java February 2007
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* ConnectionException.java February 2007
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* Entity.java February 2007
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```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/Entity.java
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```
/*
* EntityConsumer.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/EntityConsumer.java
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* Controller.java May 2004
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* LeaseCleaner.java May 2004
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* Principal.java November 2002
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Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/Principal.java
No license file was found, but licenses were detected in source scan.

/*
* RequestCertificate.java June 2013
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/RequestCertificate.java
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/*
* ContentDispositionParser.java February 2007
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Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/parse/ContentDispositionParser.java
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* NegotiationException.java February 2007
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Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/NegotiationException.java
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```
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* CertificateChallenge.java June 2013
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Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/CertificateChallenge.java
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```
/*
* RequestMessage.java February 2001
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Found in path(s):

* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/RequestMessage.java
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* TransferException.java February 2007
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```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/TransferException.java
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* Operation.java February 2007
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Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/reactor/Operation.java

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* Parser.java February 2001
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/*
* LeaseManager.java May 2004
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* ResponseEntity.java February 2001
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/ResponseEntity.java
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* UpdateConsumer.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/UpdateConsumer.java
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```
/*
* SocketListenerManager.java February 2007
```

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Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/connect/SocketListenerManager.java
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* PoolQueue.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/util/thread/PoolQueue.java
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* ArrayConsumer.java February 2007
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* Lease.java May 2004
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* Cookie.java February 2001
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* Monitor.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-
jar/org/simpleframework/http/core/Monitor.java
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* PacketManager.java October 2007
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* Handshake.java February 2007
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* PartEntryFactory.java February 2007
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* ExecuteAction.java February 2007
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* FileAllocator.java February 2008
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* PartHeaderConsumer.java February 2007
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* Protocol.java May 2012
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* BufferException.java February 2001
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```
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* ValueParser.java September 2003
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*/
```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/parse/ValueParser.java
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```
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* PartData.java February 2007
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```

Found in path(s):

* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/PartData.java
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```
/*
* ChunkedConsumer.java February 2007
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```

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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/ChunkedConsumer.java
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* DirectExecutor.java February 2007
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*/
```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/util/thread/DirectExecutor.java

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* BufferPart.java February 2012
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```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/BufferPart.java
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* Initiator.java February 2007
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*/
```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/Initiator.java
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```
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* Trace.java October 2012
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*/
```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/trace/Trace.java
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```
/*
* SocketAgent.java February 2012
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*/
```

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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/connect/SocketAgent.java
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```
/*
* Message.java February 2007
```

```
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/MessageHeader.java
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/Message.java
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```
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* EmptyConsumer.java February 2007
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*/
```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/EmptyConsumer.java
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```
/*
* PrincipalParser.java February 2001
```

```
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/parse/PrincipalParser.java
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* SocketController.java February 2008
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```

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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/SocketController.java
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* Consumer.java February 2007
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```

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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/Consumer.java
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* ContainerSelector.java February 2001
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/ContainerSelector.java
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* ActionMap.java February 2007
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* RequestHeader.java February 2001
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* MapParser.java February 2005
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* Selector.java February 2007
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```
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* PacketFlusher.java February 2007
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* Socket.java February 2001
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* Address.java February 2001
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* BufferWrapper.java February 2008
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* StatusLine.java February 2001
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* TokenConsumer.java February 2007
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* Cursor.java February 2007
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Found in path(s):
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* Reader.java February 2001
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* EmptyInputStream.java October 2002
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* ContainerServer.java February 2001
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/ContainerServer.java

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* LeaseException.java May 2004
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* ArrayAllocator.java February 2001
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```

Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/util/buffer/ArrayAllocator.java
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```
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* Channel.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/Channel.java
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```
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* Latch.java February 2007
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```
/*
* PartitionDistributor.java February 2007
```

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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/reactor/PartitionDistributor.java
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* Transport.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/Transport.java
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* ArrayBuffer.java February 2001
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/util/buffer/ArrayBuffer.java
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* NegotiationCertificate.java June 2013
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/NegotiationState.java
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* PartConsumer.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/PartConsumer.java
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* Status.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/Status.java
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* SchedulerQueue.java February 2007
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* Transfer.java February 2007
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* CloseProducer.java February 2007
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* DirectReactor.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/reactor/DirectReactor.java
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* ChunkedProducer.java February 2007
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```
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* ContainerEvent.java October 2012
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* ContentDisposition.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/ContentDisposition.java
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* ExecutorReactor.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/reactor/ExecutorReactor.java
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* Entry.java May 2004
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* Request.java February 2001
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* ContainerProcessor.java February 2007
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* ContractLease.java May 2004
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* Maintainer.java May 2004
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* Sender.java February 2007
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* ContentTypeParser.java February 2001
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* ProducerFactory.java February 2007
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* OperationFactory.java February 2007
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* Processor.java February 2007
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* ActionDistributor.java February 2007
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* LanguageParser.java February 2001
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* Scheduler.java February 2008
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* AddressParser.java February 2001
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/parse/AddressParser.java
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* Action.java February 2007
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* PartBodyConsumer.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/PartBodyConsumer.java
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* ActionSelector.java February 2013
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/reactor/ActionSelector.java
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```
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* Segment.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/Segment.java
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```
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* ThreadBuilder.java February 2009
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/util/thread/ThreadBuilder.java
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* Certificate.java June 2013
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/Certificate.java
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* SocketTransport.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/SocketTransport.java
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* SocketConnection.java October 2002
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/connect/SocketConnection.java
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* Daemon.java February 2009
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/util/thread/Daemon.java
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* SocketWrapper.java February 2001
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* FlushMonitor.java February 2007
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Found in path(s):
* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/core/FlushMonitor.java
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* BufferRecycler.java February 2008
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/BufferRecycler.java
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* RequestLine.java February 2001
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-

jar/org/simpleframework/http/RequestLine.java
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* PathParser.java February 2001
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/parse/PathParser.java
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* Expectation.java February 2007
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/http/message/Expectation.java

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* BufferSegment.java February 2008
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/BufferSegment.java
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* PartFactory.java February 2007
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* Contract.java May 2004
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* FileUploadConsumer.java February 2013
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* RequestWrapper.java February 2001
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* FilterAllocator.java February 2001
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* Conversation.java February 2007
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* ActionSet.java February 2013
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* Buffer.java February 2001
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* FileManager.java February 2008
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* QueryParser.java December 2002
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* ListParser.java September 2003
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jar/org/simpleframework/util/buffer/Allocator.java
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* /opt/cola/permits/1268044078_1644350976.95/0/simple-5-1-6-sources-jar/org/simpleframework/transport/PacketWriter.java

1.141 importlib-metadata 4.11.1

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--- end of FTL.TXT ---

```
# Files that don't get a copyright, or which are taken from elsewhere.
#
# All lines in this file are patterns, including the comment lines; this
# means that e.g. `FTL.TXT' matches all files that have this string in
# the file name (including the path relative to the current directory,
# always starting with `./').
#
# Don't put empty lines into this file!
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
```

src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
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1.144 libpwquality 1.4.4

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```
/*
* pw.h
*
* Password routines, adopted from IOX
*
* May 2000 Mark Eklund
* July 2005, Craig MacFarlane
*
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*/
/*
* edt: * pw_type_t
*      Possible formats of saving the password in SysDB.
*
* item: PW_TYPE_CLEAR
*       The password in the clear, visible for anybody.
*
* item: PW_TYPE_1WAY
*       The password encrypted to an MD5 digest.  This is not reversible.
*
* item: PW_TYPE_1WAY_2
*       The password encrypted to an sha256 digest.  This is not reversible.
*
* item: PW_TYPE_2WAY
*       The Cisco type 7 password encryption.  This is reversible
*  by both Cisco products and several public domain programs.
*/
```

Found in path(s):
* /opt/cola/permits/1273716988_1648046860.0/0/pw-tar/pw/include/pw.h
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```
/*
* pw_defs.h
*
* Password defines.
*
* July 2005, Craig MacFarlane
*
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*
*/
```

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```
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```

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* /opt/cola/permits/1273716988_1648046860.0/0/pw-tar/pw/Makefile.binos
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```
/*
* pw.c
*
* AAA password routines, adopted from IOX
*
* January 2005, Naiming Shen
* July 2005, Craig MacFarlane
*
* Copyright (c) 2005, 2007, 2010, 2014-2015, 2018 by cisco Systems, Inc.
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*
*------------------------------------------------------------------
* pw.c -- password encryption/decryption routines
*
* May 08 2000, Mark Eklund
*
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*------------------------------------------------------------------
*/
```

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```
/*
```

```
* pw_const.tph
*
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*/

@DIRECTIVES{
  auto_import_stg = false;
  skip_auto_tdl_include = true;
}@

@IMPORT_STG{
  import "constant_gen.stg";
}@

@TDL{
  import "pw_const.tdl"
}@

@CODE{

#ifndef __TDLC_GEN_PW_CONST_H__
#define __TDLC_GEN_PW_CONST_H__

  $constant_generate()$

#endif /* __TDLC_GEN_PW_CONST_H__ */

}@
```

Found in path(s):
* /opt/cola/permits/1273716988_1648046860.0/0/pw-tar/pw/include/pw_const.tph

1.145 glibc 2.35

1.145.1 Available under license :

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of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

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

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

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

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

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

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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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warranty; and distribute a copy of this License along with the
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and you may at your option offer warranty protection in exchange for a
fee.

@item
You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

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

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

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

its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If
identifiable sections
 of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
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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
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You may opt to apply the terms of the ordinary GNU General Public
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that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

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that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

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

the Library into a program that is not a library.

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

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

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

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

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

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

Otherwise,
if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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

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

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

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

@item
Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more

than the cost of performing this distribution.

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

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

For an executable, the required form of the ``work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that
is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

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

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library,
uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

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

@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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USA.
@end
 smallexample

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necessary. Here is a sample; alter the names:

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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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b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of

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

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1.147 bind 9.11.36

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<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
```

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

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

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

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 - Local variables:
 - mode: sgml
 - End:
-->
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1.149 urllib3 1.26.9

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1.150 python3-asn1crypto 1.5.1

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1.152 libxslt 1.1.35

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1.155 elfutils 0.186

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1.157 jaxen 1.2.5

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<xsl:stylesheet version="1.0"
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 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
   <xsl:text>&#10;</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
```

```
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
     <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

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

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

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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1.163 cryptsetup 2.4.3

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1.167 tdb 1.46.5

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)

```
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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Gadi Oxman, August 1995

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

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

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1.169 smartmontools 7.3

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version 0.1
##
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1.174 findutils 4.9.0

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1.178 talloc 2.3.3

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Unix SMB/CIFS implementation.
Samba temporary memory allocation functions

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1.179 ketopt 2019.4

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1.180 parson 1.1.3

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1.181 libatomic 10.3.0

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collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-10 source package is taken from the SVN gcc-10-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-10	libgnat-10	gnat-10-doc
BRIG	gccbrig-10	libhsail-rt0	
C	gcc-10		gcc-10-doc
C++	g++-10	libstdc++6	libstdc++6-10-doc
D	gdc-10		
Fortran 95	gfortran-10	libgfortran5	gfortran-10-doc
Go	gccgo-10	libgo0	
Objective C	gobjc-10	libobjc4	
Objective C++	gobjc++-10		
Modula-2	gm2-10	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-10-dbg	libstdc++6-10-pic	
D	libphobos-10-dev			

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-10-base	Base files common to all compilers
gcc-10-soft-float	Software floating point (ARM only)
gcc-10-source	The sources with patches

Ada:

libgnat-util10-dev, libgnat-util10	GNAT version library

C:

cpp-10, cpp-10-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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libphobos-10-dev D standard runtime library

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The Phobos standard runtime library:
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1.182 packaging 21.3

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1.183 pysocks 1.7.1

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1.184 cryptography 36.0.2

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1.188 bash 5.1.16

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1.189 glib 2.72.3

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1.190 libusb 1.0.26

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1.191 libuv 1.44.2

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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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1.198 apr-util 1.6.3

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This package was debianized by Thom May <thom@debian.org> on
Wed, 17 Nov 2004 11:27:14 -0800

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misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

 strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From test/CuTest.c, test/CuTest.h:

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The following was recevied Fenbruary 23,2000 From: "Linn, John" February 19, 2000

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1.199 netbase 6.3

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Wed, 24 Aug 1994 21:33:28 +0200 and maintained by Anthony Towns
<ajt@debian.org> until 2001.
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1.200 netkit-ftp 20151004

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1.201 open-ldap 2.5.12

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1.202 screen 4.9.0

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1.203 libffi 3.4.4

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This file contains a list of people who have made large contributions
to the public version of Protocol Buffers.

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* Small patch to handle trailing slashes in --proto_path flag.

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* Small optimizations to Python serialization.

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* VI syntax highlighting tweaks.
* Fix compiler to not make output executable.

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* Heuristic detection of sub-messages when printing unknown fields in text format.

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* Added @Override annotation to generated Java code where appropriate.

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* Tru64 support.

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* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>

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

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* MS Visual Studio error format option.
* Detect unordered_map in stl_hash.m4.

Brian Olson <brianolson@google.com>

* gzip/zlib I/O support.

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* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
* Added generation of field number constants.

Wink Saville <wink@google.com>

* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

* Small patch improving performance of in Python serialization.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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* 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)
Nipunn Koorapati <nipunn1313@gmail.com>
* Provide a type alias field ValueType
on EnumTypeWrapper
* Match service argument names to abstract interface
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1.210 freeradius-client 1.1.7

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1.211 pam-ldap 184

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

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

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b) Accompany the work
with a written offer, valid for at
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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.

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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
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Release	Derived from	Year	Owner	GPL-compatible? (1)
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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
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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
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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

1.215 libtool 2.4.7

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1.216 apr 1.7.2

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misc/unix/getopt.c,
file_io/unix/mktemp.c, strings/apr_strings.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

 strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.217 libcgroup 0.41

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1.222 binutils 2.38

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

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

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

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

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

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

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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,
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then this License, and its terms, do not apply to those
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Thus, it is not the intent of this section to claim rights or contest
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Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

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

4. You may copy and distribute the Library (or a portion or
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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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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Preamble

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent
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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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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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.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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END OF TERMS AND CONDITIONS

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<signature of Ty Coon>, 1 April 1990
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customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years
and valid for as
long as you offer spare parts or customer support for that product
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medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

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

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

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

++++++++++++++++

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

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

input-file.c, write.c.

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

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

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

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

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many

bugs, including true tested cross-compilation support, and one bug in relaxation
that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

we aren't
intentionally leaving anyone out.

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1.223 rdma-cm 33.0

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Upstream-Contact: Doug Ledford <dledford@redhat.com>,
Leon Romanovsky <Leon@kernel.org>
Source: https://github.com/linux-rdma/rdma-core

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with
the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is
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Preamble

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code. If you link a program with the library, you must provide
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changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
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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
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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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function must
be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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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
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linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative
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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
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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
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functions (ten lines or less in length), then the use of
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file is unrestricted, regardless of whether it is legally a derivative
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b) Accompany the
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which the executable runs, unless that component itself accompanies
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Appendix: How to Apply These Terms to Your New Libraries

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

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

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

That's all there is to it!

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the documentation, and info on specific files will go into an AUTHORS
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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.

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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.

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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).

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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
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1.225 binutils 2.37.50

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any

executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with
the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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

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

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

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

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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
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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.

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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
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and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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

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

That's all there is to it!
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Version 2, June 1991

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

Preamble

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.

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When we speak of free software, we are referring to freedom,
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have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
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you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them

with the library, after making
changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed
for everyone's
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to

permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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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
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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library

facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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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.

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integrity of the free software distribution system which is
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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
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Such new versions will be similar in spirit to the present version,
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices

stating that you changed the files and the date of any change.

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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
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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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version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

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DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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necessary. Here is a sample; alter
the names:

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

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

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@c Set file name and title for man page.
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@settitle GNU General Public License
@c man begin SEEALSO
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@heading Preamble

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To protect your rights, we need to prevent others from denying you these rights
or asking you to surrender the rights. Therefore, you
have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

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

Developers that use the GNU GPL protect your rights with two steps: (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.

@heading TERMS AND CONDITIONS

@enumerate 0
@item 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.

@item 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.

@item 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
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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.

@item 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.

@item 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.

@item
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:

@enumerate a
@item
The work must carry prominent notices stating that you modified it,
and giving a relevant date.

@item
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''.

@item
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.

@item
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.
@end enumerate

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.

@item 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:

@enumerate a
@item
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.

@item
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.

@item
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.

@item
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.

@item
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.

@end enumerate

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

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

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

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User

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

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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1.229 slf4j-impl 2.17.1

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1.230 lvm2 1.02.175

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1.234 lldpd 1.0.16

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1.235 protobuf-c 1.4.1

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1.236 fdisk 2.37.4

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
```

*
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*
* M. Welsh, 6 July 1996
*
*
*/
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1.240 shadow 4.11.1

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1.242 bind 9.18.11

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file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise,

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

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

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copyright notice for the Library among them, as well as a reference
directing the user to the copy of
this License. Also, you must do one
of these things:

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

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

@item
Accompany the work with a written offer, valid for at

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@item
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@item
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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
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use both them and the Library together in an executable that you
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@item
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@var{signature of Ty Coon}, 1 April 1990
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@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
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@example

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

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procfs provides functions to retrieve system, kernel and process
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Protocol Buffers for Go with Gadgets

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

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*    as needed. This means that data must always be copied to create
*    the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*    Fix is simple: make large buffers large enough to hold entire
*    SDU, and leave <small_buffer_data> bytes empty at the start. Then
*    copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*    buffers. This is done by 2 things:
*      1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
```

```
*       2) skb_clone of received buffers
*    See nicstar_free_rx_skb and linearize_buffer for implementation
*      details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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1.252 busybox 1.35.0

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1.254 libcap 2.66

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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
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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 https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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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

Footnotes:

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

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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```
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it
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```

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```
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 <signature of Ty Coon>, 1 April 1989
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1.259 e2fsprogs 1.46.5

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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)

```
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
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Gadi Oxman, August 1995

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Theodore Ts'o
23-June-2007

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
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1.261 file 5.41

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1.262 wget 1.21.4

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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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1.266 syslog-ng 3.36.1

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1.270 hwloc 1.11.13

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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1.276 cracklib 2.9.8

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

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

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...
> University of Missouri - Rolla Phone: (573) 341-6679
> UMR Information Technology Fax: (573) 341-4216
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...
> > Subject: [Cracklib-devel] cracklib license
> >=20
> > looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> > libraries under
> > GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> > -mike

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

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

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

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

Re: [Cracklib-devel]
cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

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

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

> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
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> > it was enough to just get it consistent and documented as to what
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> > released under. This wasn't actually a license change, just a
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> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library
to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license

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

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

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

Devin

--

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

Re: [Cracklib-devel] cracklib license

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

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

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

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

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

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

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using
the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October
2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

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

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

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

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

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

From
alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000

Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
 [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

1.277 pam 1.5.2

1.277.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
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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

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

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

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.

^L

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs

(which use some of those functions and data) to form executables.

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

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

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

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

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

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

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

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

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

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

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute
the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in

Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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^L
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1.280 python-setuptools 65.5.0

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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
2.1.2	2.1.1	2002	PSF	yes
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2.1.1		2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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Thanks to the many outside volunteers who have worked under Guido's
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1.282 mod-security 2.9.0

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1.284 pcre 8.45

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1.285 iputils 0211215

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1.286 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

Footnotes:

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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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- Wichert Akkerman, 2012/02/02
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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 $
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
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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	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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Thanks to the many outside volunteers who have worked under Guido's
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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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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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Python was created in the early 1990s by Guido van Rossum at Stichting
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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
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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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				
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1.292 d-bus 1.14.8

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1.294 gawk 5.1.1

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1.295 sudo 1.9.13p3

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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, 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, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon,
Ariel
Farrell, Brian
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
Jindrk, Jaroslav
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
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Ouellet, Jean-Philippe
Paquet, Eric
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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
Shand, Will
Sieger, Nick
Simon, Thor Lancelot
Skoll, Dianne
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
Doghonadze, Temuri
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
Kelemen, Gbor
Keeci, Mehmet
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Kozlov, Yuri
Kramer, Jakob
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Marchal, Frdric
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Nikoli, Miroslav
Nylander, Daniel
Pan, Yi-Jyun
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Selimaj, Agron
Sendn, Abel
erbnescu, Daniel
Shahedany, Eshagh
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 (inspired by xkcd): Stillman, Mark

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1.296 jdk-zulu 8.74.0.17

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1.300 esapi 2.5.3.1

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*
* @author Jeff Williams Aspect Security
* @author kevin.w.wall@gmail.com
* @created 2007
*/
// Using cipher mode that supports *both* confidentiality *and* authenticity? If so, then
// If we are using a "preferred" cipher mode--i.e., one that supports *both* confidentiality and

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/crypto/JavaEncryptor.java
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* @author Rogan DawesAspect Security
* @created 2008
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* @created 2008
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* @created 2007
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* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/tags/EncodeForHTMLTag.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/tags/EncodeForVBScriptTag.java

*
/opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/tags/BaseEncodeTag.java
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*
* @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
    * Return a {@code List} of strings of combined cipher modes that support
    * <b>both</b> confidentiality and authenticity. These would be preferred
    * cipher modes to use if your JCE provider supports them. If such a
    * cipher
 mode is used, no explicit <i>separate</i> MAC is calculated as part of
    * the {@code CipherText} object upon encryption nor is any attempt made
    * to verify the same on decryption.
    * </p><p>
    * The list is taken from the comma-separated list of cipher modes specified
    * by the ESAPI property
    * {@code Encryptor.cipher_modes.combined_modes}.
    *
    * @return The parsed list of comma-separated cipher modes if the property
    * was specified in {@code ESAPI.properties}; otherwise the empty list is
    * returned.
    */
```

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*
* @author Chris Schmidt (chris.schmidt@owasp.org)
* @created 2010
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* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/HTTPUtilities.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/Logger.java
*
 /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/Encoder.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/AccessController.java
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*
* @author Jeffrey Walton (noloader .at. gmail.com)
* @author Kevin Wall (kevin.w.wall .at. gmail.com)
* @author Matt Seil (matt.seil .at. owasp.org)
* @created 2022
*/

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* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/JSONCodec.java
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```
/**
   * The method is ESAPI's Key Derivation Function (KDF) that computes a
   * derived key from the {@code keyDerivationKey} for either
   * encryption / decryption or for authentication.
   * <p>
   * <b>CAUTION:</b> If this algorithm for computing derived keys from the
   * key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
   * able to decrypt data previously encrypted with earlier / different versions
   * of this method. Therefore, do not change this unless you are 100% certain that
   * what you are doing will NOT change either of the derived keys for
   * ANY "key derivation key" AT ALL!!!
   * <p>
   * <b>NOTE:</b> This method is generally not intended to be called separately.
   * It is used by ESAPI's reference crypto implementation class {@code JavaEncryptor}
   * and might be useful for someone implementing their own replacement class,
 but
   * generally it is not something that is useful to application client code.
   *
   * @param keyDerivationKey  A key used as an input to a key derivation function
   *                          to derive other keys. This is the key that generally
   *                          is created using some key generation mechanism such as
   *                          {@link CryptoHelper#generateSecretKey(String, int)}. The
   *                          "input" key from which the other keys are derived.
   *                            The derived key will have the same algorithm type
   *                            as this key. This KDK cannot be null.
   * @param keySize        The cipher's key size (in bits) for the {@code keyDerivationKey}.
   *                         Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
   *                         <b>Note:</b> The derived key will have the same size as this.
```

```
   * @param purpose
  The purpose for the derived key. <b>IMPORTANT:</b> For the ESAPI reference implementation,
   *                  {@code JavaEncryptor}, this <i>must</i> be either the string "encryption" or
   *                  "authenticity", where "encryption" is used for creating a derived key to use
   *                  for confidentiality, and "authenticity" is used for creating a derived key to
   *                  use with a MAC to ensure message authenticity. However, since parameter serves
   *                  the same purpose as the "Label" in section 5.1 of NIST SP 800-108, it really can
   *                  be set to anything other than {@code null} or an empty string when called outside
   *                  of ESAPI's {@code JavaEncryptor} reference implementation (but you must consistent).
   * @return              The derived {@code SecretKey} to be used according
   *                  to the specified purpose.
    * @throws NoSuchAlgorithmException       The {@code keyDerivationKey} has an unsupported
   *                  encryption algorithm or no current JCE provider supports requested
   *                  Hmac algorithrm used for the PRF for key generation.
   * @throws EncryptionException       If "UTF-8" is not supported as an encoding, then
   *                  this is thrown with the original {@code UnsupportedEncodingException}
   *                  as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
   *                  be a common encoding supported by all Java implementations. Support
   *                  for it is usually in rt.jar.) This exception is also thrown if the
   *                  requested {@code keySize} parameter exceeds the length of the number of
   *                  bytes provded in the {@code keyDerivationKey} parameter.
   * @throws InvalidKeyException
    Likely indicates a coding error. Should not happen.
   * @throws EncryptionException  Throw for some precondition violations.
   */

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jar/org/owasp/esapi/logging/cleaning/CompositeLogScrubber.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/slf4j/Slf4JLogger.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/slf4j/Slf4JLogLevelHandlers.java
*
/opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/cleaning/CodecLogScrubber.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/slf4j/Slf4JLogFactory.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/slf4j/Slf4JLogLevelHandler.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/cleaning/LogScrubber.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/slf4j/Slf4JLogBridge.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/slf4j/Slf4JLogBridgeImpl.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/cleaning/NewlineLogScrubber.java
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* @author Jeff Williams Aspect
*   Security
* @created 2007
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* @author Matt Seil (mseil .at. owasp.org)
* @created 2017
*
* @author Jeff Williams (jeff.williams .at. aspectsecurity.com) <a
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* @created 2007
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* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/HTMLEntityCodec.java
*
/opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/AbstractCharacterCodec.java
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```
/**
* <p>Encodes and decodes to and from Base64 notation.</p>
* <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* (based on version 2.2.2).</p>
*
* <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass
* several pieces of information to the encoder. In the "higher level" methods such as
* encodeBytes( bytes, options ) the options parameter can be used to indicate such
* things as first gzipping the bytes before encoding them, not inserting linefeeds
* (though that breaks strict Base64 compatibility), and encoding using the URL-safe
* and Ordered dialects.</p>
*
* <p>The constants defined in Base64 can be OR-ed together to combine options, so you
* might make a call like this:</p>
*
* <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES
);</code>
*
* <p>to compress the data before encoding it and then making
 the output have no newline characters.</p>
*
*
* <p>
```

* Original change Log:
* </p>
*
* v2.2.2 - Fixed encodeFileToFile and decodeFileToFile to use the
*   Base64.InputStream class to encode and decode on the fly which uses
*   less memory than encoding/decoding an entire file into memory before writing.
* v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
*   when using very small files (~< 40 bytes).
* v2.2 - Added some helper methods for encoding/decoding directly from
*   one file to the next. Also added a main() method to support command line
*   encoding/decoding from one file to the next. Also added these Base64 dialects:
*
*   The default is RFC3548 format.
*   Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
*   URL and file name friendly format as described in Section 4 of RFC3548.
*   http://www.faqs.org/rfcs/rfc3548.html
*   Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT)
 generates
*   URL and file name friendly format that preserves lexical ordering as described
*   in http://www.faqs.org/qa/rfcc-1940.html
*
*   Special thanks to Jim Kellerman at http://www.powerset.com/
*   for contributing the new Base64 dialects.
*
*
* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
*   some convenience methods for reading and writing to and from files.
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
*   with other encodings (like EBCDIC).
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the
*   encoded data was a single byte.
* v2.0 - I got rid of methods that used booleans to set options.
*   Now everything is more consolidated and cleaner. The code now detects
*   when data that's being decoded is gzip-compressed and will decompress it
*   automatically.
 Generally things are cleaner. You'll probably have to
*   change some method calls that you were making to support the new
*   options format (<tt>int</tt>s that you "OR" together).
* v1.5.1 - Fixed bug when decompressing and decoding to a
*   byte[] using <tt>decode(String s, boolean gzipCompressed)</tt>.
*   Added the ability to "suspend" encoding in the Output Stream so
*   you can turn on and off the encoding if you need to embed base64
*   data in an otherwise "normal" stream (like an XML file).
* v1.5 - Output stream pases on flush() command but doesn't do anything itself.
*   This helps when using GZIP streams.
*   Added the ability to GZip-compress objects before encoding them.
* v1.4 - Added helper methods to read/write files.
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.

```
*  <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
*      where last buffer
 being read, if not completely full, was not returned.</li>
*  <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
*  <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>
*
* <p>
* I am placing this code in the Public Domain. Do with it as you will.
* This software comes with no guarantees or warranties but with
* plenty of well-wishing instead!
* Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a>
* periodically to check for updates or to contribute improvements.
* </p>
*
* @author Robert Harder
* @author rob@iharder.net
* @version 2.2.2
*/
```

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/Base64.java
No license file was found, but licenses were detected in source scan.

```
/**
* OWASP Enterprise Security API (ESAPI)
*
* This file is part of the Open Web Application Security Project (OWASP)
* Enterprise Security API (ESAPI) project. For details, please see
* <a href="http://www.owasp.org/index.php/ESAPI">http://www.owasp.org/index.php/ESAPI</a>.
*
* Copyright (c) 2007 - The OWASP Foundation
*
* The ESAPI is published by OWASP under the BSD license. You should read and accept the
* LICENSE before you use, modify, and/or redistribute this software.
*
* @author Mike Fauzy <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
```

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/accesscontrol/FileBasedACRs.java
No license file was found, but licenses were detected in source scan.

```
/**
```

* OWASP Enterprise Security API (ESAPI)
*
* This file is part of the Open Web Application Security Project (OWASP)
* Enterprise Security API (ESAPI) project. For details, please see
* http://www.owasp.org/index.php/ESAPI.
*
* Copyright (c) 2008 - The OWASP Foundation
*
* The ESAPI is published by OWASP under the BSD license. You should read and accept the
* LICENSE before you use, modify, and/or redistribute this software.
*
* @author Mike Fauzy Aspect Security
* @author Rogan Dawes Aspect Security
* @created 2008
*/

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/ESAPI.java
No license file was found, but licenses were detected in source scan.

/**
* OWASP Enterprise Security API (ESAPI)
*
* This file is part of the Open Web Application Security Project (OWASP)
* Enterprise Security API (ESAPI) project. For details, please see
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*
* @author Jeff Williams Aspect Security
* @created 2007
*/

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/filters/RequestRateThrottleFilter.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/DefaultRandomizer.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/validation/NumberValidationRule.java
*
/opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/AccessReferenceMap.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/AuthenticationCredentialsException.java

* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/EnterpriseSecurityException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/AbstractAccessReferenceMap.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/ExecutorException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/validation/DateValidationRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/filters/SecurityWrapper.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/EncryptionException.java
*
 /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/DefaultIntrusionDetector.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/validation/IntegerValidationRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/AuthenticationException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/CertificateException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/PercentCodec.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/ValidationAvailabilityException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/Authenticator.java
*
 /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/validation/StringValidationRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/LegacyHTMLEntityCodec.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/ValidationUploadException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/FileBasedAuthenticator.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/MySQLCodec.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/IntegrityException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/crypto/ReferenceEncryptedProperties.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/validation/HTMLValidationRule.java
*
 /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/filters/ESAPIFilter.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-

jar/org/owasp/esapi/codecs/UnixCodec.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/IntegerAccessReferenceMap.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/AuthenticationAccountsException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/validation/BaseValidationRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/crypto/DefaultEncryptedProperties.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/AuthenticationHostException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/RandomAccessReferenceMap.java
*
/opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/JavaScriptCodec.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/VBScriptCodec.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/DefaultUser.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/DefaultHTTPUtilities.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/EncodingException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/AuthenticationLoginException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/StringUtilities.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/AvailabilityException.java
*
/opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/WindowsCodec.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/Randomizer.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/DefaultEncoder.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/User.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/IntrusionDetector.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/Codec.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/AccessControlException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/ValidationException.java
*
/opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/OracleCodec.java

* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/validation/CreditCardValidationRule.java
No license file was found, but licenses were detected in source scan.

```
/*
* OWASP Enterprise Security API (ESAPI)
*
* This file is part of the Open Worldwide Application Security Project (OWASP)
* Enterprise Security API (ESAPI) project. For details, please see
* <a href="http://www.owasp.org/index.php/ESAPI">http://www.owasp.org/index.php/ESAPI</a>.
*
* Copyright (c) 2007 - The OWASP Foundation
*
* The ESAPI is published by OWASP under the BSD license. You should read and accept the
* LICENSE before you use, modify, and/or redistribute this software.
*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
```

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/Validator.java
No license file was found, but licenses were detected in source scan.

```
/**
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*
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*
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* LICENSE before you use, modify, and/or redistribute this software.
*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
   * Executes a system command after checking that the executable exists and
   * escaping all the parameters to ensure that injection is impossible.
   * Implementations must change to the specified working
   * directory before invoking the command.
   *
   * @param executable
   *          the command to
```

```
execute
    * @param params
    *          the parameters of the command being executed
    * @param workdir
    *          the working directory
    * @param codec
    *          the codec to use to encode for the particular OS in use
    * @param logParams
    *          use false if any parameters contains sensitive or confidential information
    *
    * @return the output of the command being run
    *
    * @throws ExecutorException
    *           the service exception
    */
```

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/Executor.java
No license file was found, but licenses were detected in source scan.

```
/**
    * This methods adds a provider to the {@code SecurityManager}
    * either by some generic name or by the class name.
    * </p><p>
    * The following generic JCE provider names are built-in:
    * <ul>
    * <li>SunJCE</li>
    * <li>IBMJCE [for WebSphere]</li>
    * <li>GnuCrypto [for use with GNU Compiler for Java, i.e., gcj]</li>
    * <li>BC [i.e., Bouncy Castle]</li>
    * <li>IAIK</li>
    * <li>CryptixCrypto (or Cryptix)
    * <li>ABA
    * </ul>
    * Note that neither Cryptix or ABA are actively maintained so
    * it is recommended that you do not start using them for ESAPI
    * unless your application already has a dependency on them. Furthermore,
    * the Cryptix JCE jars likely will not work as the Cryptix code signing
    * certificate has expired as of August 28, 2009. (This likely is true
    * for ABA, but I can't even find a copy to download!). Lastly, the IAIK
    *
 provider is no longer offered as free, open source. It is not a
    * commercial product. See {@link "http://jce.iaik.tugraz.at/"} for
    * details. While some older versions were offered free, it is not clear
    * whether the accompanying license still allows you to use it, and if
    * it does, whether or not the code signing certificate used to sign
    * their JCE jar(s) has expired are not.  Therefore, if you are looking
    * for a FOSS alternative to SunJCE, Bouncy Castle
```

```
   * ({@link "http://www.bouncycastle.org/"} is probably your best bet. The
   * BC provider does support many the "combined cipher modes" that provide
   * both confidentiality and authenticity. (See the {@code ESAPI.properties}
   * property {@code Encryptor.cipher_modes.combined_modes} for details.)
   * </p><p>
   * For those working in the U.S. federal government, it should be noted
   * that <i>none</i> of the providers listed here are considered validated
   * by NIST's Cryptographic
 Module Validation Program and are therefore
   * <b>not</b> considered FIPS 140-2 compliant. There are a few approved
   * JCE compatible Java libraries that are on NIST's CMVP list, but this
   * list changes constantly so they are not listed here. For further details
   * on NIST's CMVP, see
   * {@link "http://csrc.nist.gov/groups/STM/cmvp/index.html"}.
   * </p><p>
   * Finally, if you wish to use some other JCE provider not recognized above,
   * you must specify the provider's fully-qualified class name (which in
   * turn must have a public, no argument constructor).
   * </p><p>
   * The application must be given the {@code SecurityPermission} with a
   * value of {@code insertProvider.&lt;provider_name&gt;} (where
   * &lt;provider_name&gt; is the name of the algorithm provider if
   * a security manager is installed.
   * </p>
   *
   * @param algProvider Name of the JCE algorithm provider. If the name
   *                    contains a
 ".", this is interpreted as the name
   *                    of a {@code java.security.Provider} class name.
   * @param pos         The preference position (starting at 1) that the
   *                    caller would like for this provider. If you wish
   *                    for it to be installed as the <i>last</i> provider
   *                    (as of the time of this call), set {@code pos} to -1.
   * @return The actual preference position at which the provider was added,
   *         or -1 if the provider was not added because it is already
   *         installed.
   * @exception NoSuchProviderException - thrown if the provider class
   *         could not be loaded or added to the {@code SecurityManager} or
   *         any other reason for failure.
   */
```

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/crypto/SecurityProviderLoader.java
No license file was found, but licenses were detected in source scan.

```
/**
* OWASP Enterprise Security API (ESAPI)
```

```
*
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* Enterprise Security API (ESAPI) project. For details, please see
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*
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*
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* LICENSE before you use, modify, and/or redistribute this software.
*
* @author Matt Seil (mseil .at. owasp.org)
* @created 2017
*
*/
```

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/PushbackSequence.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/AbstractPushbackSequence.java
No license file was found, but licenses were detected in source scan.

```
// version.
```

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/crypto/CipherTextSerializer.java
No license file was found, but licenses were detected in source scan.

```
/**
* OWASP Enterprise Security API (ESAPI)
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*
* Copyright (c) 2007-2019 - The OWASP Foundation
*
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* LICENSE before you use, modify, and/or redistribute this software.
*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2009
*/
```

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/PreparedString.java

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

/**
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* LICENSE before you use, modify, and/or redistribute this software.
*
* @author Jeff Williams Aspect Security
* @author Jim Manico (jim@manico.net) Manico.net
*
* @created 2007
*/

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/DefaultValidator.java
No license file was found, but licenses were detected in source scan.

/**
* OWASP Enterprise Security API (ESAPI)
*
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*
* @author Matt Seil (mseil .at. owasp.org)
* @updated 2017
*
* @author Jeff Williams (jeff.williams .at. aspectsecurity.com) <a
*   href="http://www.aspectsecurity.com">Aspect Security
* @created 2007
*/

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/PushbackString.java

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

/**
* OWASP Enterprise Security API (ESAPI)
*
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* Enterprise Security API (ESAPI) project. For details, please see
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*
* @author Matt Seil (mseil .at. owasp.org)
* @created 2017
*/

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/codecs/AbstractCodec.java
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*
* @author Jeff Williams Aspect Security
* @created 2007
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Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/DefaultSecurityConfiguration.java
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*
* @author Arshan Dabirsiaghi Aspect Security
* @created 2009
*/

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/internal/InterceptingServletOutputStream.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/DetectOutboundContentRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/EnforceHTTPSRule.java
*
 /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/actions/BlockAction.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/PathExtensionRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/BeanShellRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/IPRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/actions/RedirectAction.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/actions/DoNothingAction.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/RestrictContentTypeRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/ReplaceContentRule.java
*
 /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/AddSecureFlagRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/internal/InterceptingHTTPServletResponse.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/GeneralAttackSignatureRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/RuleUtil.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/internal/InterceptingHTTPServletRequest.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-

jar/org/owasp/esapi/waf/rules/AddHTTPOnlyFlagRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/actions/Action.java
*
/opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/internal/Parameter.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/configuration/ConfigurationParser.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/SimpleVirtualPatchRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/MustMatchRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/RestrictUserAgentRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/HTTPMethodRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/ConfigurationException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/configuration/AppGuardianConfiguration.java
*
/opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/Rule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/internal/InterceptingPrintWriter.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/ESAPIWebApplicationFirewallFilter.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/actions/DefaultAction.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/AddHeaderRule.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/waf/rules/AuthenticatedRule.java
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* @author Jeff Williams Aspect Security

*
* @created 2007
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Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/ValidationErrorList.java
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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
* An IntrusionException should be thrown anytime an error condition arises that is likely to be the result of an attack
* in progress. IntrusionExceptions are handled specially by the IntrusionDetector, which is equipped to respond by
* either specially logging the event, logging out the current user, or invalidating the
 current user's account.
* <P>
* Unlike other exceptions in the ESAPI, the IntrusionException is a RuntimeException so that it can be thrown from
* anywhere and will not require a lot of special exception handling.
*
* @author Jeff Williams (jeff.williams@aspectsecurity.com)
*/
```

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/IntrusionException.java
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```
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*
* @author   Jeff Williams Aspect Security
* @created   February 6, 2009
*/

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/filters/ClickjackFilter.java
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* @author Jeff Williams Aspect Security
* @created 2007
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Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/EncryptionRuntimeException.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/errors/EnterpriseSecurityRuntimeException.java
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*
* @author Jeff Williams <a href="http://www.aspectsecurity.com">Aspect Security</a>
* @created 2007
*/
/**
   * {@inheritDoc}
   *
   * The reference implementation sets the work directory, escapes the parameters as per the Codec in use,
   * and then executes the command without using concatenation. The exact, absolute, canonical path of each
   * executable must be listed as an approved executable in the ESAPI properties.
 The executable must also
   * exist on the disk. All failures will be logged, along with parameters if specified. Set the logParams to false if
   * you are going to invoke this interface with confidential information.
   */
```

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/reference/DefaultExecutor.java
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```
/**
   * The method is ESAPI's Key Derivation Function (KDF) that computes a
   * derived key from the {@code keyDerivationKey} for either
   * encryption / decryption or for authentication.
   * <p>
   * <b>CAUTION:</b> If this algorithm for computing derived keys from the
   * key derivation key is <i>ever</i> changed, we risk breaking backward compatibility of being
   * able to decrypt data previously encrypted with earlier / different versions
   * of this method. Therefore, do not change this unless you are 100% certain that
   * what you are doing will NOT change either of the derived keys for
```

```
   * ANY "key derivation key" AT ALL!!!
   * <p>
   * <b>NOTE:</b> This method is generally not intended to be called separately.
   * It is used by ESAPI's reference crypto implementation class {@code JavaEncryptor}
   * and might be useful for someone implementing their own replacement class,
but
   * generally it is not something that is useful to application client code.
   *
   * @param keyDerivationKey  A key used as an input to a key derivation function
   *                          to derive other keys. This is the key that generally
   *                          is created using some key generation mechanism such as
   *                          {@link #generateSecretKey(String, int)}. The
   *                          "input" key from which the other keys are derived.
   *                            The derived key will have the same algorithm type
   *                            as this key.
   * @param keySize        The cipher's key size (in bits) for the {@code keyDerivationKey}.
   *                       Must have a minimum size of 56 bits and be an integral multiple of 8-bits.
   *                       <b>Note:</b> The derived key will have the same size as this.
   * @param purpose        The purpose for the derived key. Must
be either the
   *                       string "encryption" or "authenticity". Use "encryption" for
   *                     creating a derived key to use for confidentiality, and "authenticity"
   *                     for a derived key to use with a MAC to ensure message authenticity.
   * @return                The derived {@code SecretKey} to be used according
   *                       to the specified purpose. Note that this serves the same purpose
   *                       as "label" in section 5.1 of NIST SP 800-108.
   * @throws NoSuchAlgorithmException        The {@code keyDerivationKey} has an unsupported
   *                       encryption algorithm or no current JCE provider supports
   *                       "HmacSHA1".
   * @throws EncryptionException        If "UTF-8" is not supported as an encoding, then
   *                       this is thrown with the original {@code UnsupportedEncodingException}
   *
    as the cause. (NOTE: This should never happen as "UTF-8" is supposed to
   *                       be a common encoding supported by all Java implementations. Support
   *                       for it is usually in rt.jar.) This exception is also thrown if the
   *                       requested {@code keySize} parameter exceeds the length of the number of
   *                       bytes provded in the {@code keyDerivationKey} parameter.
   * @throws InvalidKeyException     Likely indicates a coding error. Should not happen.
   * @throws EncryptionException  Throw for some precondition violations.
   * @deprecated Use same method in {@code KeyDerivationFunction} instead. This method will be
<b>removed</b> as of
   *             ESAPI release 2.3 so if you are using this, please CHANGE YOUR CODE. Note that the replacement
   *             is not a static method, so create your own wrapper if you wish, but this will soon disappear.
   */
/**

 * Return true if specified cipher mode is one of those specified in the
   * {@code ESAPI.properties} file that supports both confidentiality
```

```
   * <b>and</b> authenticity (i.e., a "combined cipher mode" as NIST refers
   * to it).
   * @param cipherMode The specified cipher mode to be used for the encryption
   *                   or decryption operation.
   * @return true if the specified cipher mode is in the comma-separated list
   *         of cipher modes supporting both confidentiality and authenticity;
   *         otherwise false.
   * @see org.owasp.esapi.SecurityConfiguration#getCombinedCipherModes()
   */
```

Found in path(s):
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/crypto/CryptoHelper.java
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*
* @created 2010
*/
// Because attribute values may be confidential, we don't want to log them!
```

Found in path(s):
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* @author Jeff Williams Aspect Security
* @author kevin.w.wall@gmail.com
* @created 2007
*/

Found in path(s):
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* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/java/JavaLogFactory.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-

jar/org/owasp/esapi/logging/appender/EventTypeLogSupplier.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/java/JavaLogLevelHandlers.java
*
 /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/appender/ServerInfoSupplier.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/appender/UserInfoSupplier.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/java/JavaLogger.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/java/JavaLogBridgeImpl.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/appender/LogPrefixAppender.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/java/ESAPICustomJavaLevel.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/appender/LogAppender.java
*
 /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/appender/ClientInfoSupplier.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/java/JavaLogLevelHandler.java
* /opt/cola/permits/1870332105_1703038535.352934/0/esapi-2-5-3-1-sources-jar/org/owasp/esapi/logging/java/ESAPIErrorJavaLevel.java
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1.301 openssh 9.6p1

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http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

* Cordys R&D BV
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1.310 lttng-ust 2.13.6

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L. Peter Deutsch
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1.316 libvirt 8.1.0

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1.317 expat 2.6.2

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1.318 libcgroup 2.0.2

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Version 2.1, February 1999

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits
such linking only if the
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many

libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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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.

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

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

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

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

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

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Otherwise, if the work is a derivative of the Library, you may distribute the object

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with the Library, with the complete machine-readable "work that
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will operate properly
with a modified version of the library, if
the user installs one, as long as the modified version is
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Version 3, 19 November 2007

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1. Source Code.

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

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

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

The "Corresponding Source" for a work in object code form means

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

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

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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1.328 python-setuptools 59.5.0

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1.329 pycparser 2.21

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1.330 nvme-cli 1.13

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1.334 python3-ndg-httpsclient 0.5.1

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1.335 python3-ptyprocess 0.7.0

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1.336 python3-pycparser 2.21

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1.337 python3-pysocks 1.7.1

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1.338 python3-pexpect 4.8.0

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1.339 python-ply 3.11

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1.340 sedutil 1.20.0

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* /opt/cola/permits/2042810738_1717658686.063576/0/multipart-parser-c-master-3-zip/multipart-parser-c-master/multipart_parser.c

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/*****************************************************************************
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* httpd@ncsa.uiuc.edu
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     ===============

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

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

*/

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
        This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
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<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="./style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
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<link
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<p class="apache">Apache HTTP Server Version 2.4</p>
<img alt="" src="./images/feather.gif" /></div>
<div class="up"><a href="./"><img title="&lt;-" alt="&lt;-" src="./images/left.gif" /></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="./">Version 2.4</a></div><div id="page-content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available Languages: </span><a href="./en/license.html" title="English"> en </a></p>
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    d.write(' Comments are disabled for this page at the moment.<\/div>');
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Modules | Directives | <a
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if (typeof(prettyPrint) !== 'undefined') {
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* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/edge.py
*
/opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/exceptions.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/range.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/exceptions.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/vertex.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/process.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/typed.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/enum.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/rfc_2822_parse.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/msgid_utils.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/rfc_2821_parse.py
*
/opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/tb.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/aplib/net/mask.py
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/evg/test/test_oriented_graph.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0
Name: aplib
Version: 1.0.0-000
Summary: UNKNOWN
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN

Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/2058106748_1737057494.381211/0/aplib-1-0-tar-gz/aplib-1.0/EGG-INFO/PKG-INFO

1.344 common-base3 1.0

1.344.1 Available under license :

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

/opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/common.pyo: binary file matches
/opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/multi_connect_base.pyo: binary file matches

Found in path(s):
* /bin/grep
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Found in path(s):
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/provisioner_service.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/diagnostic_archive_util.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/enum.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/upgrade_base/__init__.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/product.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/tests/test.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/nameservice.py
*
/opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/ftp.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/__init__.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/tftp.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/base_message_server.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-

1.0/common_base/messageq/mq_coroutine_server.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/base_conf.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/multi_connect_client.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/log.py
*
/opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/encryption_util.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/multi_connect_base.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/daemon.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/clear_password_fields.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/socket_util.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/mq_client.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/upgrade_base/upgrade_server.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/provisioner_events.py
*
/opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/mq_coroutine_client.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/name_svc_util.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/base_transfer_proto.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/base.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/mq_server.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/upgrade_base/upgrade_client.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/multi_connect_coroutine_client.py
*
/opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/tests/tests_asa_provisioner_service_provider.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/product.py.orig
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/asa_provisoner_service_provider.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/transfer_proto/http.py

* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/tests/__init__.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/name_server.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/common.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/auth_util.py
*
/opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/daemon.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/__init__.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/console_util.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/messageq/base_message_client.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/util/db_version_util.py
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/common_base/commandd/client.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0
Name: common-base
Version: 1.0
Summary: common-base
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/2058106348_1737054431.7368672/0/common-base3-1-0-tar-gz/common-base3-1.0/EGG-INFO/PKG-INFO

1.345 shrapnel 1.0

1.345.1 Available under license :

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Found in path(s):
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/backdoor.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0
Name: shrapnel
Version: 1.0.0-000
Summary: UNKNOWN
Home-page: UNKNOWN
Author: UNKNOWN
Author-email: UNKNOWN
License: UNKNOWN
Description: UNKNOWN
Platform: UNKNOWN

Found in path(s):
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/EGG-INFO/PKG-INFO
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Found in path(s):
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/process.py
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/emulation/socket.py
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/optional.py
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/emulation/threading.py
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/emulation/__init__.py
* /opt/cola/permits/2058107187_1737054844.4686623/0/shrapnel-1-0-tar-gz/shrapnel-1.0/coro/emulation/thread.py

1.346 qed-drv 8.59.10.0

1.346.1 Available under license :

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1.347 qede-drv 8.59.10.0

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* /opt/cola/permits/2058108718_1737055812.1039581/0/amd-wdt-tar-gz/amd-wdt/files/amd_wdt.c

1.349 python-ptyprocess 0.6.0

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in path(s):
* /opt/cola/permits/2058109508_1737055216.3924744/0/amd-spi-tar-gz/amd-spi/files/spirom.c

1.351 expect 5.45.4

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1.355 tomcat-connectors 1.2.40

1.355.1 Available under license :

```
PGM
CRTCMOD MODULE(MOD_JK/MOD_JK) +
  SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('mod_jk.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp_common.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5'
 '_REENTRANT') +
  TEXT('jk_ajp12_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
```

```
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +

 INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
      'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14_worker.c') +
  OPTIMIZE(40) +
```

```
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
  SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +

  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT' 'USE_SO_RCVTIMEO' +
       'USE_SO_SNDTIMEO' ) +
  TEXT('jk_connect.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
  SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_context.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
  SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_lb_worker.c') +

  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
  SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
```

```
        'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MD5) +
  SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
        'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_md5.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF)
 +
  SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
        'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_msg_buff.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
  SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
        'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_pool.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SOCKBUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
```

```
   DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
        'USE_APACHE_MD5' '_REENTRANT') +
    TEXT('jk_sockbuf.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALE) +
   SYSIFCOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
   TGTRLS(*CURRENT) +
   INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
   SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
   DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
        'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_uri_worker_map.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALE) +
   SYSIFCOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
   TGTRLS(*CURRENT) +
   INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
   SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
   DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
        'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_url.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALE) +
   SYSIFCOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
   TGTRLS(*CURRENT) +
   INCDIR('/home/apache/jk/native/common'
 '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_UTIL) +
   SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
   DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
        'USE_APACHE_MD5' '_REENTRANT') +
   TEXT('jk_util.c') +
   OPTIMIZE(40) +
   LOCALETYPE(*LOCALE) +
   SYSIFCOPT(*IFSIO) +
   LANGLVL(*EXTENDED) +
   TGTRLS(*CURRENT) +
   INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_WORKER) +
```

```
  SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
  SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520'
 +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_status.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
  SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
  DEFINE('AS400' 'HAVE_APR' '_XOPEN_SOURCE=520' +
       'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_shm.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALE) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
    MODULE(MOD_JK/MOD_JK +
         MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
         MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
         MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
         MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
         MOD_JK/JK_LB_WORK +
         MOD_JK/JK_MAP MOD_JK/JK_MD5
 +
         MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
         MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
         MOD_JK/JK_URL +
```

```
        MOD_JK/JK_UTIL MOD_JK/JK_WORKER +
        MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
    EXPORT(*SRCFILE) +
    BNDDIR() +
    TGTRLS(*CURRENT) +
    SRCFILE(MOD_JK/QSRVSRC) +
    SRCMBR(MOD_JK) +
    USRPRF(*USER) +
    BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
          QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
    TEXT('Apache Tomcat mod_jk connector module')

ENDPGM
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!IFDEF APACHE20_HOME
APR_LIB=libapr.lib
APU_LIB=libaprutil.lib
OUTDIR=.\Release20
INTDIR=.\Release20
APACHE2_HOME=$(APACHE20_HOME)
!ELSE
!IFDEF APACHE24_HOME
APACHE2_HOME=$(APACHE24_HOME)
OUTDIR=.\Release24
INTDIR=.\Release24
!ELSE
!IFDEF
 APACHE22_HOME
APACHE2_HOME=$(APACHE22_HOME)
OUTDIR=.\Release22
INTDIR=.\Release22
!ENDIF
!ENDIF
APR_LIB=libapr-1.lib
```

```
APU_LIB=libaprutil-1.lib
!ENDIF
!IFNDEF APACHE2_HOME
!ERROR Missing APACHE2_HOME environment variable.
!ENDIF

TARGET=mod_jk$(SO_VERSION)$(SO_HTTPD_VERSION)
CPP=cl.exe
MTL=midl.exe
RSC=rc.exe
ARCH=X86

ALL : "$(OUTDIR)\$(TARGET).so"


CLEAN :
 -@erase "$(INTDIR)\jk.res"
 -@erase "$(INTDIR)\jk_ajp12_worker.obj"
 -@erase "$(INTDIR)\jk_ajp13.obj"
 -@erase "$(INTDIR)\jk_ajp13_worker.obj"
 -@erase "$(INTDIR)\jk_ajp14.obj"
 -@erase "$(INTDIR)\jk_ajp14_worker.obj"
 -@erase "$(INTDIR)\jk_ajp_common.obj"
 -@erase "$(INTDIR)\jk_connect.obj"
 -@erase "$(INTDIR)\jk_context.obj"
 -@erase "$(INTDIR)\jk_lb_worker.obj"
 -@erase "$(INTDIR)\jk_map.obj"
 -@erase "$(INTDIR)\jk_md5.obj"
 -@erase "$(INTDIR)\jk_msg_buff.obj"
 -@erase "$(INTDIR)\jk_pool.obj"
 -@erase "$(INTDIR)\jk_shm.obj"
 -@erase "$(INTDIR)\jk_sockbuf.obj"
 -@erase "$(INTDIR)\jk_status.obj"
 -@erase "$(INTDIR)\jk_uri_worker_map.obj"
 -@erase
 "$(INTDIR)\jk_url.obj"
 -@erase "$(INTDIR)\jk_util.obj"
 -@erase "$(INTDIR)\jk_worker.obj"
 -@erase "$(INTDIR)\mod_jk.obj"
 -@erase "$(INTDIR)\mod_jk_src.idb"
 -@erase "$(INTDIR)\mod_jk_src.pdb"
 -@erase "$(OUTDIR)\mod_jk.exp"
 -@erase "$(OUTDIR)\mod_jk.lib"
 -@erase "$(OUTDIR)\$(TARGET).pdb"
 -@erase "$(OUTDIR)\$(TARGET).so"

"$(OUTDIR)" :
   if not exist "$(OUTDIR)/$(NULL)" mkdir "$(OUTDIR)"
```

```
BSC32=bscmake.exe
BSC32_FLAGS=/nologo /o"$(OUTDIR)\$(TARGET).bsc"
BSC32_SBRS= \

LINK32=link.exe
LINK32_FLAGS=libhttpd.lib $(APR_LIB) $(APU_LIB) kernel32.lib user32.lib advapi32.lib mswsock.lib
ws2_32.lib $(EXTRA_LIBS) /nologo /base:"0x6A6B0000" /subsystem:windows /dll /incremental:no
/pdb:"$(OUTDIR)\$(TARGET).pdb" /debug /machine:$(ARCH) /out:"$(OUTDIR)\$(TARGET).so"
/implib:"$(OUTDIR)\mod_jk.lib" /libpath:"$(APACHE2_HOME)\lib" /opt:ref
LINK32_OBJS= \
 "$(INTDIR)\jk_ajp12_worker.obj" \
 "$(INTDIR)\jk_ajp13.obj" \
 "$(INTDIR)\jk_ajp13_worker.obj" \
 "$(INTDIR)\jk_ajp14.obj"
 \
 "$(INTDIR)\jk_ajp14_worker.obj" \
 "$(INTDIR)\jk_ajp_common.obj" \
 "$(INTDIR)\jk_connect.obj" \
 "$(INTDIR)\jk_context.obj" \
 "$(INTDIR)\jk_lb_worker.obj" \
 "$(INTDIR)\jk_map.obj" \
 "$(INTDIR)\jk_md5.obj" \
 "$(INTDIR)\jk_msg_buff.obj" \
 "$(INTDIR)\jk_pool.obj" \
 "$(INTDIR)\jk_shm.obj" \
 "$(INTDIR)\jk_sockbuf.obj" \
 "$(INTDIR)\jk_status.obj" \
 "$(INTDIR)\jk_uri_worker_map.obj" \
 "$(INTDIR)\jk_url.obj" \
 "$(INTDIR)\jk_util.obj" \
 "$(INTDIR)\jk_worker.obj" \
 "$(INTDIR)\jk.res" \
 "$(INTDIR)\mod_jk.obj"

"$(OUTDIR)\$(TARGET).so" : "$(OUTDIR)" $(DEF_FILE) $(LINK32_OBJS)
   $(LINK32) @<<
 $(LINK32_FLAGS) $(LINK32_OBJS)
<<
 @IF EXIST $(OUTDIR)\$(TARGET).manifest \
  mt -nologo -manifest $(OUTDIR)\$(TARGET).manifest -outputresource:$(OUTDIR)\$(TARGET).so;2


CPP_PROJ=-nologo -MD -W3 -O2 -Ob2 -Oy- -Zi -EHsc /I "..\common" /I "$(APACHE2_HOME)\include" /D
"NDEBUG" /D "WIN32" /D "_WINDOWS" $(CFLAGS) /Fo"$(INTDIR)\\" /Fd"$(INTDIR)\mod_jk_src" /FD /c

.c{$(INTDIR)}.obj::
```

```
   $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.obj::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.c{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cpp{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

.cxx{$(INTDIR)}.sbr::
  $(CPP) @<<
  $(CPP_PROJ) $<
<<

MTL_PROJ=/nologo /D "NDEBUG" /mktyplib203 /win32
RSC_PROJ=/l 0x409 /fo"$(INTDIR)\jk.res" /i "..\common" /d BASENAME="mod_jk" /d "NDEBUG"

SOURCE=..\common\jk.rc

"$(INTDIR)\jk.res" : $(SOURCE) "$(INTDIR)"
  $(RSC) $(RSC_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp12_worker.c

"$(INTDIR)\jk_ajp12_worker.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp13.c

"$(INTDIR)\jk_ajp13.obj" : $(SOURCE) "$(INTDIR)"
  $(CPP) $(CPP_PROJ) $(SOURCE)
```

```
SOURCE=..\common\jk_ajp13_worker.c

"$(INTDIR)\jk_ajp13_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp14.c

"$(INTDIR)\jk_ajp14.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP)
 $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp14_worker.c

"$(INTDIR)\jk_ajp14_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_ajp_common.c

"$(INTDIR)\jk_ajp_common.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_connect.c

"$(INTDIR)\jk_connect.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_context.c

"$(INTDIR)\jk_context.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_lb_worker.c

"$(INTDIR)\jk_lb_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_map.c

"$(INTDIR)\jk_map.obj" : $(SOURCE) "$(INTDIR)"
```

```
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_md5.c

"$(INTDIR)\jk_md5.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_msg_buff.c

"$(INTDIR)\jk_msg_buff.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_pool.c

"$(INTDIR)\jk_pool.obj"
 : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_shm.c

"$(INTDIR)\jk_shm.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_sockbuf.c

"$(INTDIR)\jk_sockbuf.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_status.c

"$(INTDIR)\jk_status.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_uri_worker_map.c

"$(INTDIR)\jk_uri_worker_map.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)


SOURCE=..\common\jk_url.c
```

"$(INTDIR)\jk_url.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_util.c

"$(INTDIR)\jk_util.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=..\common\jk_worker.c

"$(INTDIR)\jk_worker.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)

SOURCE=.\mod_jk.c

"$(INTDIR)\mod_jk.obj" : $(SOURCE) "$(INTDIR)"
 $(CPP) $(CPP_PROJ) $(SOURCE)
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From native/common/ap_snprintf.c:

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

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#

#
# NetWare Makefile for mod_jk (uses build system of Apache 2.x - gnu make)
# created by Guenter Knauf <fuankg@apache.org>
#

#
# Declare the sub-directories to be built here
#

SUBDIRS = \
 $(EOLIST)

#
# Get the
 'head' of the build environment.  This includes default targets and
# paths to tools
#

include $(AP_WORK)/build/NWGNUhead.inc

#
# build this level's files

#
# Make sure all needed macro's are defined
#

JKCOMMON = ../common

#
```

```
# These directories will be at the beginning of the include list, followed by
# INCDIRS
#
XINCDIRS += \
  $(JKCOMMON) \
  $(APR)/include \
  $(APRUTIL)/include \
  $(AP_WORK)/include \
  $(NWOS) \
  $(EOLIST)

#
# These flags will come after CFLAGS
#
XCFLAGS  += \
  $(EOLIST)

#
# These defines will come after DEFINES
#
XDEFINES += \
  -D__NOVELL_LIBC__ \
  -D_POSIX_SOURCE \
  $(EOLIST)

#
# These flags will be added to the link.opt file
#
XLFLAGS  += \
  $(EOLIST)

#
# These values will be appended to the correct variables based on the value of
# RELEASE
#
ifeq "$(RELEASE)" "debug"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif
```

```
ifeq "$(RELEASE)" "noopt"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  +=
 \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

ifeq "$(RELEASE)" "release"
XINCDIRS += \
  $(EOLIST)

XCFLAGS  += \
  $(EOLIST)

XDEFINES += \
  $(EOLIST)

XLFLAGS  += \
  $(EOLIST)
endif

#
# These are used by the link target if an NLM is being generated
# This is used by the link 'name' directive to name the nlm.  If left blank
# TARGET_nlm (see below) will be used.
#
NLM_NAME = mod_jk

#
# This is used by the link '-desc ' directive.
# If left blank, NLM_NAME will be used.
#
NLM_DESCRIPTION = Apache $(VERSION_STR) plugin for Tomcat $(JK_VERSION_STR)

#
# This is used by the link '-copy ' directive.
# If left blank, the ASF copyright defined in NWGNUtail.inc will be used.
#
NLM_COPYRIGHT =
```

```
#
# This is used by the '-threadname' directive.  If left blank,
# NLM_NAME Thread will be used.
#
NLM_THREAD_NAME = JK Module

#
# If this is specified, it will override VERSION value in
# $(AP_WORK)\build\NWGNUenvironment.inc
#
NLM_VERSION = $(JK_VERSION)

#
#
 If this is specified, it will override the default of 64K
#
NLM_STACK_SIZE = 49152


#
# If this is specified it will be used by the link '-entry' directive
#
NLM_ENTRY_SYM = _LibCPrelude

#
# If this is specified it will be used by the link '-exit' directive
#
NLM_EXIT_SYM = _LibCPostlude

#
# If this is specified it will be used by the link '-check' directive
#
NLM_CHECK_SYM =

#
# If these are specified it will be used by the link '-flags' directive
#
NLM_FLAGS = AUTOUNLOAD, PSEUDOPREEMPTION

#
# If this is specified it will be linked in with the XDCData option in the def
# file instead of the default of $(NWOS)/apache.xdc.  XDCData can be disabled
# by setting APACHE_UNIPROC in the environment
#
XDCDATA  =

#
```

```
# If there is an NLM target, put it here
#
TARGET_nlm = \
 $(OBJDIR)/$(NLM_NAME).nlm \
 $(EOLIST)

#
# If there is an LIB target, put it here
#
TARGET_lib = \
 $(EOLIST)

#
# These are the OBJ files needed to create the NLM target above.
# Paths must all use the
 '/' character
#
FILES_nlm_objs = \
 $(OBJDIR)/jk_nwmain.o \
 $(OBJDIR)/jk_ajp12_worker.o \
 $(OBJDIR)/jk_ajp13.o \
 $(OBJDIR)/jk_ajp13_worker.o \
 $(OBJDIR)/jk_ajp14.o \
 $(OBJDIR)/jk_ajp14_worker.o \
 $(OBJDIR)/jk_ajp_common.o \
 $(OBJDIR)/jk_connect.o \
 $(OBJDIR)/jk_context.o \
 $(OBJDIR)/jk_lb_worker.o \
 $(OBJDIR)/jk_map.o \
 $(OBJDIR)/jk_md5.o \
 $(OBJDIR)/jk_msg_buff.o \
 $(OBJDIR)/jk_pool.o \
 $(OBJDIR)/jk_shm.o \
 $(OBJDIR)/jk_sockbuf.o \
 $(OBJDIR)/jk_status.o \
 $(OBJDIR)/jk_uri_worker_map.o \
 $(OBJDIR)/jk_url.o \
 $(OBJDIR)/jk_util.o \
 $(OBJDIR)/jk_worker.o \
 $(OBJDIR)/mod_jk.o \
 $(EOLIST)

#
# These are the LIB files needed to create the NLM target above.
# These will be added as a library command in the link.opt file.
#
FILES_nlm_libs = \
 $(NOVELLLIBC)/imports/libcpre.o \
```

```
 $(EOLIST)

#
# These are the modules that the above NLM target depends on to load.
# These will be added as a module command in the link.opt file.
#
FILES_nlm_modules = \
 aprlib \
 libc \
 $(EOLIST)

#
#
 If the nlm has a msg file, put it's path here
#
FILE_nlm_msg =

#
# If the nlm has a hlp file put it's path here
#
FILE_nlm_hlp =

#
# If this is specified, it will override $(NWOS)\copyright.txt.
#
FILE_nlm_copyright =

#
# Any additional imports go here
#
FILES_nlm_Ximports = \
 @aprlib.imp \
 @httpd.imp \
 @libc.imp \
 @ws2nlm.imp \
 $(EOLIST)

#
# Any symbols exported to here
#
FILES_nlm_exports = \
 jk_module \
 $(EOLIST)

#
# These are the OBJ files needed to create the LIB target above.
# Paths must all use the '/' character
#
```

```
FILES_lib_objs = \
 $(EOLIST)

#
# implement targets and dependancies (leave this section alone)
#

libs :: $(OBJDIR) $(TARGET_lib)

nlms :: libs $(TARGET_nlm)

#
# Updated this target to create necessary directories and copy files to the
# correct place.  (See $(AP_WORK)\build\NWGNUhead.inc for examples)
#
install :: nlms FORCE
 copy $(OBJDIR)\*.nlm $(INSTALL)\Apache2\modules\*.*

#
# Any specialized rules here
#

vpath %.c $(JKCOMMON)

$(OBJDIR)/version.inc:
 $(JKCOMMON)/jk_version.h $(OBJDIR)
 @echo Creating $@
 @awk -f ../../support/get_ver.awk $< > $@



#
# Include the version info retrieved from jk_version.h
#

-include $(OBJDIR)/version.inc

#
# Include the 'tail' makefile that has targets that depend on variables defined
# in this makefile
#

include $(AP_WORK)/build/NWGNUtail.inc
```

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```
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PGM
CRTCMOD MODULE(MOD_JK/MOD_JK) +
  SRCSTMF('/home/apache/jk/native/apache-2.0/mod_jk.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('mod_jk.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP_COM) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp_common.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp_common.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP12_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp12_worker.c')
 +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp12_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
```

```
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' + 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp13.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP13_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp13_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5'
 '_REENTRANT') +
  TEXT('jk_ajp13_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_ajp14.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_AJP14_W) +
  SRCSTMF('/home/apache/jk/native/common/jk_ajp14_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
```

```
  TEXT('jk_ajp14_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF)
 +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONNECT) +
  SRCSTMF('/home/apache/jk/native/common/jk_connect.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT' +
       'USE_SO_RCVTIMEO' + 'USE_SO_SNDTIMEO' ) +
  TEXT('jk_connect.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_CONTEXT) +
  SRCSTMF('/home/apache/jk/native/common/jk_context.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_context.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED)
 +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_LB_WORK) +
  SRCSTMF('/home/apache/jk/native/common/jk_lb_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_lb_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
```

```
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MAP) +
  SRCSTMF('/home/apache/jk/native/common/jk_map.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD
 MODULE(MOD_JK/JK_MD5) +
  SRCSTMF('/home/apache/jk/native/common/jk_md5.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_md5.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_MSG_BUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_msg_buff.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_msg_buff.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_POOL) +
  SRCSTMF('/home/apache/jk/native/common/jk_pool.c') +
   DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_pool.c') +
```

```
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SOCKBUF) +
  SRCSTMF('/home/apache/jk/native/common/jk_sockbuf.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_sockbuf.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URI_W_M) +
  SRCSTMF('/home/apache/jk/native/common/jk_uri_worker_map.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT')
 +
  TEXT('jk_uri_worker_map.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_URL) +
  SRCSTMF('/home/apache/jk/native/common/jk_url.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_url.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')
```

```
CRTCMOD MODULE(MOD_JK/JK_UTIL) +
  SRCSTMF('/home/apache/jk/native/common/jk_util.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_util.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +

  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_WORKER) +
  SRCSTMF('/home/apache/jk/native/common/jk_worker.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_worker.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_STATUS) +
  SRCSTMF('/home/apache/jk/native/common/jk_status.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_status.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common'
 '/QIBM/ProdData/HTTPA/Include')

CRTCMOD MODULE(MOD_JK/JK_SHM) +
  SRCSTMF('/home/apache/jk/native/common/jk_shm.c') +
  DEFINE('AS400' 'AS400_UTF8' 'HAVE_APR' +
       '_XOPEN_SOURCE=520' 'USE_APACHE_MD5' '_REENTRANT') +
  TEXT('jk_shm.c') +
  OPTIMIZE(40) +
  LOCALETYPE(*LOCALEUTF) +
```

```
  SYSIFCOPT(*IFSIO) +
  LANGLVL(*EXTENDED) +
  TERASPACE(*YES) +
  TGTRLS(*CURRENT) +
  INCDIR('/home/apache/jk/native/common' '/QIBM/ProdData/HTTPA/Include')

CRTSRVPGM SRVPGM(MOD_JK/MOD_JK) +
   MODULE(MOD_JK/MOD_JK +
        MOD_JK/JK_AJP_COM MOD_JK/JK_AJP12_W +
        MOD_JK/JK_AJP13 MOD_JK/JK_AJP13_W +
        MOD_JK/JK_AJP14 MOD_JK/JK_AJP14_W +
        MOD_JK/JK_CONNECT MOD_JK/JK_CONTEXT +
        MOD_JK/JK_LB_WORK +
        MOD_JK/JK_MAP MOD_JK/JK_MD5 +
        MOD_JK/JK_MSG_BUF MOD_JK/JK_POOL +
        MOD_JK/JK_SOCKBUF MOD_JK/JK_URI_W_M +
        MOD_JK/JK_URL +
        MOD_JK/JK_UTIL MOD_JK/JK_WORKER +

   MOD_JK/JK_STATUS MOD_JK/JK_SHM) +
   EXPORT(*SRCFILE) +
   BNDDIR() +
   TGTRLS(*CURRENT) +
   SRCFILE(MOD_JK/QSRVSRC) +
   SRCMBR(MOD_JK) +
   USRPRF(*USER) +
   BNDSRVPGM(QHTTPSVR/QZSRAPR QHTTPSVR/QZSRCORE +
         QHTTPSVR/QZSRXMLP QHTTPSVR/QZSRSDBM) +
   TEXT('Apache Tomcat mod_jk connector module')

ENDPGM
```

1.356 libtomcrypt 1.17

1.356.1 Available under license :

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Tom St Denis

1.357 libtommath 0.42.0

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1.358 fbset-modes 0.1.0

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```
/*
*  Linux Frame Buffer Device Configuration
*
*   Copyright 1995-1999 by Geert Uytterhoeven
*        (Geert.Uytterhoeven@cs.kuleuven.ac.be)
*
*  ---------------------------------------------------------------------
*
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*  distribution for more details.
*
*  Petr Vandrovec <vandrove@vc.cvut.cz>:
*          -grayscale, -rgba, -nonstd, VGA modes reporting
*
*  Brad Midgley <brad@exodus.pht.com>:
*          -match
*
*/
```

Found in path(s):
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/fbset.c
No license file was found, but licenses were detected in source scan.

```
/*
*  Linux Frame Buffer Device Configuration
*
*   Copyright 1995-1998 by Geert Uytterhoeven
*   (Geert.Uytterhoeven@cs.kuleuven.ac.be)
*
*  ---------------------------------------------------------------------
*
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*  distribution for more details.
*/
```

Found in path(s):
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/fbset.h
No license file was found, but licenses were detected in source scan.

```
/*
*  Linux Frame Buffer Device Configuration
*
*   Copyright 1995-1998 by Geert Uytterhoeven
*        (Geert.Uytterhoeven@cs.kuleuven.ac.be)
*
*  ---------------------------------------------------------------------
*
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*  distribution for more details.
*/
```

Found in path(s):
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/modes.y
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/modes.l
No license file was found, but licenses were detected in source scan.

```
# distributed under the GNU General Public License
```

Found in path(s):
* /opt/cola/permits/2074183739_1719591727.410519/0/fbset-2-1-orig-tar-gz/fbset-2.1/modeline2fb

1.359 gdbm 1.23

1.359.1 Available under license :

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Version 3, 29 June 2007

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1.362 mongoose-web-server 3.5

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==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://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 https://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 https://opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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1.373 icu 70.1

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---
layout: default
title: Legalities
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See [svn changeset r39632](https://github.com/unicode-org/icu/commit/0001f6c5e92f6f3a8d66c7dbc47cc24df7633a71)
for
an example; there should be only two files to update.

```
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

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

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

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

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

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

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

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

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


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

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

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

## Versioned libraries rules

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

##  Bind internal references

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

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

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

## End BSD-specific setup
```

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57.1

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lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c

lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.375 gpt-fdisk 1.0.8

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1.377 protobuf 1.27.1

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1.378 init-ifupdown 1.0

1.378.1 Available under license :

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Wed, 24 Aug 1994 21:33:28 +0200 and maintained by Anthony Towns
<ajt@debian.org> until 2001.
It is currently maintained by Marco d'Itri <md@linux.it>.

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1.379 tipc-utils 2.2.0+gitAUTOINC+7ab2211b87

1.379.1 Available under license :

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```
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*
* server_tipc.c
*
* Short description: TIPC stream demo (server side)
*
* ----------------------------------------------------------------------
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* ----------------------------------------------------------------------
```

*/

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*
* client_tipc.c
*
* Short description: TIPC hello world demo (client side)
* --
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```
/* ----------------------------------------------------------------------
*
* server_tipc.c
*
* Short description: TIPC benchmark demo (server side)
*
* ----------------------------------------------------------------------
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* ----------------------------------------------------------------------
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```
/* ----------------------------------------------------------------------
*
* tipc_ts_adapt.h
*
* Short description: Portable TIPC Test Suite -- wrapper declarations for Linux
*
* ----------------------------------------------------------------------
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* ----------------------------------------------------------------------
*/
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```
/* ----------------------------------------------------------------------
*
* server_tipc.c
```

```
*
* Short description: TIPC stream demo (server side)
*
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7ab2211-1-master-tar-gz/demos/stream_demo/client_tipc.c
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/* --------------------------------------------------------------------
*
* tipc_ts_common.c
*
* Short description: Portable TIPC Test Suite -- common client+server routines
*
```

* --
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/* --
*
* client_tipc.c
*
* Short description: TIPC multicast demo (client side)
*
* --
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/* --
*
* client_tipc.c
*
* Short description: TIPC subscription demo (client side)
*
* --
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*
* tipc_ts_server_linux.c
*
* Short description: Portable TIPC Test Suite -- server wrapper for Linux
*
* --
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*
* client_tipc.c
*
* Short description: TIPC benchmark demo (client side)
*
* --
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/* --
*
* tipcc.h
*
* Short description: TIPC C binding API. The complete TIPC socket API with all
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*
* --
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*
* Version 0.9.5: Jon Maloy, 2016
*
* --
 */

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*
* tipc_ts_server.c
*
* Short description: Portable TIPC Test Suite -- common server routines
*
* --
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/*
* include/uapi/linux/tipc.h: Header for TIPC socket interface
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/* --

Name: inventory_sim.c

Short description: TIPC distributed inventory simulation (Linux version)

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DESCRIPTION
This file is a demo program that illustrates how TIPC can be used to support
distributed applications. It takes advantage of TIPC's socket-based

messaging, as well as its port naming and port name subscription capabilities.

The demo is a simulation
of a store that stocks a variety of numbered items
which are sold to customers upon request. By default, items and customers are created randomly (although there are limits on the number of each that can be present in the store at any given time). From time to time new items are delivered to the store; independently of this, customers enter the store, each looking for a specific item. If a desired item can be obtained before a customer gets tired of waiting for it, a sale is recorded; otherwise, a walk-out is recorded. If multiple customers attempt to obtain the same item, only one succeeds; the others are notified of their failure and try again.

Each item and customer is implemented as a separate task. An item makes itself available by creating a socket whose port name identifies the item number. A customer determines the availability of an item by creating a subscription for the item name and waiting for notification that the item exists; the customer then obtains the item
by sending a message to the socket for the item
and receiving a successful reply. A logging task is used to record all significant events encountered by the item and customer tasks during the simulation, as well as to display the simulation status and statistics on a periodic basis.

This simulation is most effective when it is run on multiple CPUs at the same time, which has the effect of creating a network of stores sharing a global inventory. Since the port name published by an item is visible throughout the TIPC cluster, customers are able to obtain items from other CPUs if they are not available locally. The more CPUs involved in the simulation, the more items are available and the less likely a customer will be to walk out of a store because the item they desire is unavailable.

When a simulation is terminated the logging task waits for all customers to leave, then creates a janitor task to dispose of the unsold items that remain. TIPC's name subscription capability allows
the janitor to distinguish the items
belonging to its own store from those in other stores.

The simulation can be temporarily halted to permit inspection of the various tasks used, or to assist in debugging problems. This is achieved by publishing the name of a virtual item (item 0), which instructs the logging task on each CPU to temporarily suspend processing; this causes all customer and item tasks on the CPU to become blocked when they next attempt to log an event. (Note: Pausing the simulation may result in warning messages from customers about non-responsive items; this is normal behavior resulting from the way the pause capability is implemented, and is no cause for concern.)

The demo gives the user control over the number of item and customer tasks

used in the simulation, as well as the ability to increase the speed of
processing and to control the amount of output generated. By default, a
simulation running at normal speed displays all transaction info, while a
simulation
 running at an accelerated rate displays only the periodic summary.
The simulation can also be run in a deterministic manner by creating a store
having no items or customers, and then generating individual item and customer
tasks manually.

Building the demo

The demo is built as a normal TIPC application. The accompanying Makefile
builds a "inventory_sim" executable and creates softlinks to a set of aliases
(eg. newSim, killSim, ...) that are used to invoke the main executable to do
specific operations.

Running the demo

The simulation is run by issuing the following shell commands:

newSim [#items [#customers [speed [verbosity]]]]
                - open store
killSim   - close store and clean up
stopSim   - pause simulation of all stores
startSim   - unpause simulation of all stores
newItem [item [count]] - create item (repeat as specified)
newCust [item [count]] - create customer for item (repeat as specified)
helpSim
            - display this menu

A missing (or 0) argument value causes the simulation to choose an appropriate
default. In certain cases, an argument value that is < 0 can also be used
to disable a specific feature of a command.

The output messages generated by the simulation should be self-explanatory.

Examples
---
1) Run default simulation: ./newSim

2) Run simulation at 10x normal speed: ./newSim 0 0 10

3) Run simulation manually: ./newSim -1 -1   [create empty store]
    ./newItem 3   [create item]
    ./newCust 3   [create customer]
*/

Found in path(s):

* /opt/cola/permits/2175989091_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/inventory_sim/inventory_sim.c
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```
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*
* tipc_c_api_client.c
*
* Short description:
* ------------------------------------------------------------------------
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* ------------------------------------------------------------------------
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```
/* ------------------------------------------------------------------------
*
```

```
* common_tipc.h
*
* Short description: TIPC benchmark demo (common definitions and functions)
*
* ------------------------------------------------------------------------
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/* ------------------------------------------------------------------------
*
* tipcc.c
*
* Short description: TIPC C binding API
*
* ------------------------------------------------------------------------
```

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*
* Version 0.9: Jon Maloy, 2015
*
* --
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*
 /opt/cola/permits/2175989091_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/multicast_blast/tipcc.c
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/* --
*
* server_tipc.c
*
* Short description: TIPC multicast demo (server side)
*
* --

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/* --
*
* tipc_ts.h
*
* Short description: Portable TIPC Test Suite -- common declarations
*
* --
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/* --
*
* client_tipc.c
*
* Short description: TIPC connection demo (client side)
*
* --
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/* --
*
* tipc-pipe.c
*
* Short description: TIPC CLI utility, similar to netcat.
*
* --
*
* Written by Constantine Shulyupin const@makelinux.com for Compass EOS
*
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/* --
*
* tipc_ts_client.c
*
* Short description: Portable TIPC Test Suite -- common client routines
*
* --
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/* --
*
* server_tipc.c
*
* Short description: TIPC connection demo (server side)
*
* --
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/* --
*
* server_tipc.c
*
* Short description: TIPC subscription demo (server side)
*
* --
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/* --
*
* mcast_tipc.c
*
* Short description: TIPC multicast demo (client side)
*
* --
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*
 /opt/cola/permits/2175989091_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/multicast_blast/mcast_tipc.c
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*
* server_tipc.c
*
* Short description: TIPC hello world demo (server side)
* --
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*
* tipc_c_api_top_subscr.c
*
* Short description:
* --
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```
/* ------------------------------------------------------------------------
*
* tipcc.h
*
* Short description: TIPC C binding API. The complete TIPC socket API with all
*                    standard features is available in <linux/tipc.h>
*
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*
* Version 0.9.3: Jon Maloy, 2015
*
* ------------------------------------------------------------------------
 */
```

Found in path(s):

* /opt/cola/permits/2175989091_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/c_api_demo/tipcc.h
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```
/* ------------------------------------------------------------------------
*
* tipc_c_api_server.c
*
* Short description:
* ------------------------------------------------------------------------
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*
* ------------------------------------------------------------------------
*/
```

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* /opt/cola/permits/2175989091_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/demos/c_api_demo/tipc_c_api_server.c
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```
/* ------------------------------------------------------------------------
*
```

```
* tipc_ts_client_linux.c
*
* Short description: Portable TIPC Test Suite -- client wrapper for Linux
*
* ----------------------------------------------------------------------
*
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*
* ----------------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/2175989091_1725911719.6418335/0/repacked-gitshallow-git-code-sf-net-p-tipc-tipcutils-7ab2211-1-master-tar-gz/ptts/tipc_ts_client_linux.c

1.380 base-passwd 3.5.29

1.380.1 Available under license :

Format-Specification: http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135
Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*
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1.388 thread-pool 0.2.5

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

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1.390 update-rc-d 0.8

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1.391 tunctl 1.5

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* /opt/cola/permits/2175989059_1725911717.9993913/0/tunctl-1-5-1-tar-gz/tunctl-1.5/tunctl.c
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Name: tunctl
Version: 1.5
Release: 1
Summary: Create and remove virtual network interfaces

Group: Applications/System
License: GPL+
URL: http://tunctl.sourceforge.net/
Source0: http://downloads.sourceforge.net/tunctl/tunctl-%{version}.tar.gz
BuildRoot: %{_tmppath}/%{name}-%{version}-%{release}-root-%(%{__id_u} -n)

BuildRequires: docbook-utils

%description
Virtual network interface manipulation tool from User Mode Linux project.

%prep
%setup

%build
make

%install
rm -rf $RPM_BUILD_ROOT
make DESTDIR=$RPM_BUILD_ROOT install

%clean
rm -rf $RPM_BUILD_ROOT

%files
%defattr(-,root,root,-)
%{_mandir}/man8/tunctl.8*
%{_sbindir}/tunctl
%doc ChangeLog

%changelog
* Wed Jul 9 2008 Henrik Nordstrom <henrik@henriknordstrom.net> 1.5-1
- Update to version 1.5

* Tue Jul 8 2008 Henrik Nordstrom <henrik@henriknordstrom.net> 1.4-3

- Packaged tunctl as a upstream
package of it's own

* Tue Mar 25 2008 Lubomir Kundrak <lkundrak@redhat.com> 1.4-2
- Move to sbin (Marek Mahut, #434583)

* Fri Feb 22 2008 Lubomir Kundrak <lkundrak@redhat.com> 1.4-1
- Initial packaging

Found in path(s):
* /opt/cola/permits/2175989059_1725911717.9993913/0/tunctl-1-5-1-tar-gz/tunctl-1.5/tunctl.spec

1.392 javax-el 2.2.3

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* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/JJTELParserState.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/ELParserConstants.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/SimpleCharStream.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/ELParserTreeConstants.java
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* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstMethodArguments.java
*
 /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/ELParser.java
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/*
 Author: Jacob Hookom
 Email: jacob at hookom.net
      Author: Kin-man Chung
*/

/* == Option Declaration == */
options
{

```
 STATIC=false;
 NODE_PREFIX="Ast";
 VISITOR_EXCEPTION="javax.el.ELException";
 VISITOR=false;
 MULTI=true;
 NODE_DEFAULT_VOID=true;
 JAVA_UNICODE_ESCAPE=false;
  UNICODE_INPUT=true;
 BUILD_NODE_FILES=true;
}

/* == Parser Declaration == */
PARSER_BEGIN( ELParser )
package com.sun.el.parser;
import java.io.StringReader;
import javax.el.ELException;
public class ELParser
{
  public static Node parse(String ref) throws ELException
  {
     try {
      return (new ELParser(new StringReader(ref))).CompositeExpression();
     } catch (ParseException pe) {
        throw new ELException(pe.getMessage());
     }
  }
}
PARSER_END( ELParser )

/*
* CompositeExpression
* Allow most flexible parsing, restrict by examining
* type of returned node
*/
AstCompositeExpression CompositeExpression() #CompositeExpression
 : {}
{
 (DeferredExpression() | DynamicExpression() | LiteralExpression())* <EOF> { return jjtThis; }
}

/*
* LiteralExpression
* Non-EL Expression blocks
*/
void LiteralExpression() #LiteralExpression : { Token t = null; }
{
 t=<LITERAL_EXPRESSION> { jjtThis.setImage(t.image); }
}
```

```
/*
* DeferredExpression
* #{..} Expressions
*/
void DeferredExpression() #DeferredExpression : {}
{
 <START_DEFERRED_EXPRESSION> Expression() <END_EXPRESSION>
}

/*
* DynamicExpression
* ${..} Expressions
*/
void DynamicExpression() #DynamicExpression : {}
{
 <START_DYNAMIC_EXPRESSION> Expression() <END_EXPRESSION>
}

/*
* Expression
* EL Expression Language Root, goes to Choice
*/
void Expression() : {}
{
 Choice()
}

/*
* Choice
* For Choice markup a ? b : c, then Or
*/
void Choice() : {}
{
 Or() (<QUESTIONMARK> Choice() <COLON> Choice() #Choice(3))?
}

/*
* Or
* For 'or' '||', then And
*/
void Or() : {}
{
 And() ((<OR0>|<OR1>) And() #Or(2))*
}

/*
* And
```

```
* For 'and'
 '&&', then Equality
*/
void And() : {}
{
 Equality() ((<AND0>|<AND1>) Equality() #And(2))*
}

/*
* Equality
* For '==' 'eq' '!=' 'ne', then Compare
*/
void Equality() : {}
{
 Compare()
 (
  ((<EQ0>|<EQ1>) Compare() #Equal(2))
 |
  ((<NE0>|<NE1>) Compare() #NotEqual(2))
 )*
}

/*
* Compare
* For a bunch of them, then Math
*/
void Compare() : {}
{
 Math()
 (
  ((<LT0>|<LT1>) Math() #LessThan(2))
 |
  ((<GT0>|<GT1>) Math() #GreaterThan(2))
 |
  ((<LE0>|<LE1>) Math() #LessThanEqual(2))
 |
  ((<GE0>|<GE1>) Math() #GreaterThanEqual(2))
 )*
}

/*
* Math
* For '+' '-', then Multiplication
*/
void Math() : {}
{
 Multiplication()
 (
```

```
 (<PLUS> Multiplication() #Plus(2))
|
 (<MINUS> Multiplication() #Minus(2))
)*
}

/*
* Multiplication
* For a bunch of them, then Unary
*/
void Multiplication() : {}
{
 Unary()
 (
  (<MULT> Unary() #Mult(2))
|
  ((<DIV0>|<DIV1>) Unary() #Div(2))
|
  ((<MOD0>|<MOD1>) Unary() #Mod(2))
 )*
}

/*
* Unary
* For '-' '!' 'not' 'empty', then Value
*/
void
 Unary() : {}
{
  <MINUS> Unary() #Negative
|
  (<NOT0>|<NOT1>) Unary() #Not
|
  <EMPTY> Unary() #Empty
|
  Value()
}

/*
* Value
* Defines Prefix plus zero or more Suffixes
*/
void Value() : {}
{
 (ValuePrefix() (ValueSuffix())*) #Value(>1)
}

/*
```

```
* ValuePrefix
* For Literals, Variables, and Functions
*/
void ValuePrefix() : {}
{
 Literal()
 | NonLiteral()
}

/*
* ValueSuffix
* Either dot or bracket notation
*/
void ValueSuffix() : {}
{
 DotSuffix() | BracketSuffix()
}

/*
* DotSuffix
* Dot Property and Dot Method
*/
void DotSuffix() #DotSuffix : { Token t = null; }
{
      <DOT> t=<IDENTIFIER> { jjtThis.setImage(t.image); }
      ( (<LPAREN> (Expression() (<COMMA> Expression())*)? <RPAREN> )
         #MethodArguments
      )?
}

/*
* BracketSuffix
* Sub Expression Suffix
*/
void BracketSuffix() #BracketSuffix : {}
{
 <LBRACK> Expression() <RBRACK>
      ( (<LPAREN> (Expression() (<COMMA> Expression())*)? <RPAREN> )
         #MethodArguments

    )?
}

/*
* NonLiteral
* For Grouped Operations, Identifiers, and Functions
*/
void NonLiteral() : {}
```

```
{
 <LPAREN> Expression() <RPAREN>
| LOOKAHEAD(4) Function()
| Identifier()
}

/*
* Identifier
* Java Language Identifier
*/
void Identifier() #Identifier : { Token t = null; }
{
 t=<IDENTIFIER> { jjtThis.setImage(t.image); }
}

/*
* Function
* Namespace:Name(a,b,c)
*/
void Function() #Function :
{
 Token t0 = null;
 Token t1 = null;
}
{
 t0=<IDENTIFIER> (<COLON> t1=<IDENTIFIER>)?
 {
  if (t1 != null) {
   jjtThis.setPrefix(t0.image);
   jjtThis.setLocalName(t1.image);
  } else {
   jjtThis.setLocalName(t0.image);
  }
 }
 <LPAREN> (Expression() (<COMMA> Expression())*)? <RPAREN>
}


/*
* Literal
* Reserved Keywords
*/
void Literal() : {}
{
 Boolean()
| FloatingPoint()
| Integer()
| String()
```

```
 | Null()
}

/*
* Boolean
* For 'true' 'false'
*/
void Boolean() : {}
{
 <TRUE> #True
 | <FALSE> #False
}

/*
* FloatinPoint
* For Decimal and Floating Point Literals
*/
void
 FloatingPoint() #FloatingPoint : { Token t = null; }
{
 t=<FLOATING_POINT_LITERAL> { jjtThis.setImage(t.image); }
}

/*
* Integer
* For Simple Numeric Literals
*/
void Integer() #Integer : { Token t = null; }
{
 t=<INTEGER_LITERAL> { jjtThis.setImage(t.image); }
}

/*
* String
* For Quoted Literals
*/
void String() #String : { Token t = null; }
{
 t=<STRING_LITERAL> { jjtThis.setImage(t.image); }
}

/*
* Null
* For 'null'
*/
void Null() #Null : {}
{
 <NULL>
```

```
}


/*
================================================================================
== */
<DEFAULT> TOKEN :
{
 < LITERAL_EXPRESSION:
   ((~["\\", "$", "#"])
    | ("\\" ("\\" | "$" | "#"))
    | ("$" ~["{", "$"])
    | ("#" ~["{", "#"])
   )+
   | "$"
   | "#"
 >
|
 < START_DYNAMIC_EXPRESSION: "${" > : IN_EXPRESSION
|
 < START_DEFERRED_EXPRESSION: "#{" > : IN_EXPRESSION
}

<DEFAULT> SKIP : { "\\" }

<IN_EXPRESSION> SKIP : { " " | "\t" | "\n" | "\r" }

<IN_EXPRESSION> TOKEN :
{
 < INTEGER_LITERAL: ["0"-"9"]
 (["0"-"9"])* >
| < FLOATING_POINT_LITERAL: (["0"-"9"])+ "." (["0"-"9"])* (<EXPONENT>)?
  | "." (["0"-"9"])+ (<EXPONENT>)?
  | (["0"-"9"])+ <EXPONENT>
 >
| < #EXPONENT: ["e","E"] (["+","-"])? (["0"-"9"])+ >
| < STRING_LITERAL: ("\"" ((~["\"","\\"])
  | ("\\" ( ["\\","\""] )))* "\"")
  | ("\'" ((~["\'","\\"])
  | ("\\" ( ["\\","\'"] )))* "\'")
 >
| < BADLY_ESCAPED_STRING_LITERAL: ("\"" (~["\"","\\"])* ("\\" ( ~["\\","\""] )))
  | ("\'" (~["\'","\\"])* ("\\" ( ~["\\","\'"] )))
 >
| < TRUE : "true" >
| < FALSE : "false" >
| < NULL : "null" >
| < END_EXPRESSION : "}" > : DEFAULT
```

```
| < DOT : "." >
| < LPAREN : "(" >
| < RPAREN : ")" >
| < LBRACK : "[" >
| < RBRACK : "]" >
| < COLON : ":" >
| < COMMA : "," >
| < GT0 : ">" >
| < GT1 : "gt" >
| < LT0 : "<" >
| < LT1 : "lt" >
| < GE0 : ">=" >
| < GE1 : "ge" >
| < LE0 : "<=" >
| < LE1 : "le" >
| < EQ0 : "==" >
| < EQ1 : "eq" >
| < NE0 : "!=" >
| < NE1 : "ne" >
| < NOT0 : "!" >
| < NOT1 : "not" >
| < AND0 : "&&" >
| < AND1 : "and" >
| < OR0 :
 "||" >
| < OR1 : "or" >
| < EMPTY : "empty" >
| < INSTANCEOF : "instanceof" >
| < MULT : "*" >
| < PLUS : "+" >
| < MINUS : "-" >
| < QUESTIONMARK : "?" >
| < DIV0 : "/" >
| < DIV1 : "div" >
| < MOD0 : "%" >
| < MOD1 : "mod" >
| < IDENTIFIER : (<LETTER>|<IMPL_OBJ_START>) (<LETTER>|<DIGIT>)* >
| < #IMPL_OBJ_START: "#" >
| < #LETTER:
  [
  "\u0024",
  "\u0041"-"\u005a",
  "\u005f",
  "\u0061"-"\u007a",
  "\u00c0"-"\u00d6",
  "\u00d8"-"\u00f6",
  "\u00f8"-"\u00ff",
  "\u0100"-"\u1fff",
```

```
  "\u3040"-"\u318f",
  "\u3300"-"\u337f",
  "\u3400"-"\u3d2d",
  "\u4e00"-"\u9fff",
  "\uf900"-"\ufaff"
  ]
 >
| < #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",
  "\u1040"-"\u1049"
  ]
 >
| < ILLEGAL_CHARACTER: (~[]) >
}
```

Found in path(s):
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/ELParser.jjt
No license file was found, but licenses were detected in source scan.

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* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstMult.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstInteger.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstChoice.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/BooleanNode.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstIdentifier.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstDiv.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstNotEqual.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstGreaterThanEqual.java
*
 /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstEqual.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-

jar/com/sun/el/parser/AstMinus.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstCompositeExpression.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstNull.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/lang/ELSupport.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstAnd.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/TokenMgrError.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstEmpty.java
*
/opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstBracketSuffix.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstNot.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstOr.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/SimpleNode.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstString.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/ValueExpressionLiteral.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/ParseException.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstFloatingPoint.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/lang/VariableMapperImpl.java
*
/opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/Token.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstDynamicExpression.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstDeferredExpression.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstTrue.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/MethodExpressionLiteral.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/lang/FunctionMapperImpl.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstLessThanEqual.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/util/ReflectionUtil.java
*
/opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/Node.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/util/MessageFactory.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-

jar/com/sun/el/parser/AstFunction.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstLiteralExpression.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstPlus.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/ExpressionFactoryImpl.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstDotSuffix.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstMod.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstFalse.java
*
/opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstNegative.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstLessThan.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/MethodExpressionImpl.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/lang/VariableMapperFactory.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/ArithmeticNode.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/lang/FunctionMapperFactory.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/AstGreaterThan.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/lang/EvaluationContext.java
* /opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/parser/NodeVisitor.java
*
/opt/cola/permits/2184623050_1726504596.414412/0/javax-el-2-2-3-sources-2-jar/com/sun/el/ValueExpressionImpl.java

1.393 jdk-zulu 8.80.0.17

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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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1.396 libtraceevent 1.8.2

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libtraceevent(3)
==========

NAME
----
kbuffer_read_event, kbuffer_next_event, kbuffer_missed_events, kbuffer_event_size, kbuffer_curr_size,
kbuffer_curr_offset, kbuffer_curr_index, kbuffer_read_buffer -
Functions to read through the kbuffer sub buffer.

SYNOPSIS

[verse]
--
#include <kbuffer.h>

void pass:[*]*kbuffer_read_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]*kbuffer_next_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]*kbuffer_read_at_offset*(struct kbuffer pass:[*]_kbuf_, int _offset_, unsigned long long pass:[*]_ts_);
int *kbuffer_missed_events*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_event_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_offset*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_index*(struct kbuffer pass:[*]_kbuf_);

int *kbuffer_read_buffer*(struct
 kbuffer pass:[*]_kbuf_, void pass:[*]_buffer_, int _len_);
--

DESCRIPTION

The function *kbuffer_read_event()* reads the next event in the _kbuf_ descriptor
and if _ts_ is non NULL, will place its timestamp into it. This does not modify the _kbuf_
descriptor, and calling this function mulitple times will return the same result.

The function *kbuffer_next_event()* will return the next event in the _kbuf_ descriptor.
It will also set the _ts_ to the timestamp of the returned event. NULL is returned
if there are no more events and _ts_ will be undefined. Note, if this is called directly
after a *kbuffer_load_subbuffer()* then it will likely give an unexpected result, as it
will return the second event and not the first event. Usually this function is only used
to move to the next event and to know if there's any more events to read, and
kbuffer_read_event() is always called first.

The function *kbuffer_read_at_offset()* returns the event located at a given
 offset from
the beginning of the sub-buffer. This offset can be retrieved by *kbuffer_curr_offset()*.
If _ts_ points to an unsigned long long, then it will be set to the event at the given
offset's timestamp.

If the sub-buffer had missed events before it, then *kbuffer_missed_events()* will return
the non zero. If it returns -1, that means there were missed events, but the exact number
of missed events is unknown. If it returns a positive number, then the number of missed events
is the return value.

The *kbuffer_event_size()* function returns the size of the data portion of the current event
(the one that would be returned by *kbuffer_read_event()*.

The *kbuffer_curr_size()* function returns the entire record size of the current event
(the one that would be returned by *kbuffer_read_event()*. The difference here is that the
return value includes the size of the event record meta data that is not part of what
is returned by *kbuffer_read_event()*.

The *kbuffer_curr_offset()* function
 returns the offset from the beginning of the sub-buffer
of where the current event's meta data for the record begins. The first event will
not be at offset zero. This offset can be used to retrieve the event with
kbuffer_read_at_offset().

The *kbuffer_curr_index()* function returns the index from the beginning of the data
portion of the sub-buffer where the current evnet's meta data is located.
The first event will likely be zero, but may not be if there's a timestamp attached to it.

The *kbuffer_read_buffer()* function will fill the given _buffer_ from the _kbuf_ the same

way the kernel would do a read system call. That is, if the length _len_ is less than the
sub buffer size, or the kbuffer current index is non-zero, it will start copying from the
kbuf current event and create _buffer_ as a new sub buffer (with a timestamp
and commit header) with that event that was found and including all events after that can
fit within _len_. The _len_ must include the size of the sub
buffer header as well as the
events to include. That is, _len_ is the allocate size of _buffer_ that can be filled.
The return from this function is the index of the end of the last event that was added.
If there are no more events then zero is returned, and if the buffer can not
copy any events because _len_ was too small, then -1 is returned.

RETURN VALUE
---
kbuffer_read_event() returns the event that the _kbuf_ descriptor is currently at,
or NULL if the last event was passed (by *kbuffer_next_event()*).

kbuffer_next_event() returns the next event after the current event or NULL if there
are no more events.

kbuffer_read_at_offset() returns the event at a given _offset_ from the start of
the sub-buffer stored in _kbuf_, or NULL if there exists no event. Note, _offset_
only needs to be an offset that lands on the record, or is at the start of it. It does
not need to be exactly at the beginning of the record.

kbuffer_missed_events() returns 0 if there were no missed
events before loaded sub-buffer.
Returns -1 if there were an unknown number of missed events, or if the number of missed events
is known, that number will be returned.

kbuffer_event_size() returns the size of the data payload of the current event of _kbuf_.

kbuffer_curr_size() returns the size of the entire record of the current event of _kbuf_.
This includes the size of the meta data for that record.

kbuf_curr_offset() returns the offset of the current record from the beginning of the _kbuf_
sub-buffer.

kbuf_curr_index() returns the index of the current record from the beginning of the _kbuf_
data section.

kbuf_read_buffer() returns the index of the end of the last event that was filled in
buffer. If there are no more events to copy from _start_ then 0 is returned. If _len_
is not big enough to hold any events, then -1 is returned.

EXAMPLE

[source,c]

```
--
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/stat.h>

#include
 <kbuffer.h>

int main (int argc, char **argv)
{
 unsigned long long ts;
 struct kbuffer *kbuf;
 struct stat st;
 char *buf;
 void *event;
 int save_offset = -1;
 int record_size;
 int offset;
 int index;
 int size;
 int ret;
 int fd;
 int i = 0;

 if (argc < 2) {
  printf("usage: %s raw-subbuffer-page\n", argv[0]);
  printf(" Try: dd count=1 bs=4096 if=/sys/kernel/tracing/per_cpu/cpu0/trace_pipe_raw of=/tmp/file\n");
  exit(0);
 }

 if (stat(argv[1], &st) < 0) {
  perror("stat");
  exit(-1);
 }

 buf = malloc(st.st_size);
 if (!buf) {
  perror("Allocating buffer");
  exit(-1);
 }

 fd = open(argv[1], O_RDONLY);
 if (fd < 0) {
  perror(argv[1]);
  exit(-1);
 }
```

```
ret = read(fd, buf, st.st_size);
if (ret < 0) {
 perror("Reading buffer");
 exit(-1);
}
close(fd);

kbuf = kbuffer_alloc(KBUFFER_ENDIAN_SAME_AS_HOST,
      KBUFFER_LSIZE_SAME_AS_HOST);
if (!kbuf) {
 perror("Creating kbuffer");
 exit(-1);
}
ret = kbuffer_load_subbuffer(kbuf, buf);
if (ret < 0) {
 perror("Loading
sub bufer");
 exit(-1);
}

if (kbuffer_subbuffer_size(kbuf) > st.st_size) {
 fprintf(stderr, "kbuffer is bigger than raw size %d > %ld\n",
  kbuffer_subbuffer_size(kbuf), st.st_size);
 exit(-1);
}

ret = kbuffer_missed_events(kbuf);
if (ret) {
 if (ret > 0)
  printf("Missed %d events before this buffer\n", ret);
 else
  printf("Missed unknown number of events before this buffer\n");
}
do {
 event = kbuffer_read_event(kbuf, &ts);
 if (event) {
  record_size = kbuffer_curr_size(kbuf);
  offset = kbuffer_curr_offset(kbuf);
  index = kbuffer_curr_index(kbuf);
  size = kbuffer_event_size(kbuf);

  if (i == 20)
   save_offset = offset;
  printf(" event %3d ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n",
        i++, ts, record_size, size, index, offset);
  event = kbuffer_next_event(kbuf, NULL);
 }
```

```
 } while (event);

 if (!event)
  printf("Finished sub buffer\n");

 if (save_offset > 0) {
  event = kbuffer_read_at_offset(kbuf, save_offset, &ts);
  if
 (!event) {
   fprintf(stderr, "Funny, can't find event 20 at offset %d\n", save_offset);
   exit(-1);
  }
  record_size = kbuffer_curr_size(kbuf);
  offset = kbuffer_curr_offset(kbuf);
  index = kbuffer_curr_index(kbuf);
  size = kbuffer_event_size(kbuf);

  printf("\n saved event 20 ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n\n",
         ts, record_size, size, index, offset);
 }
 kbuffer_free(kbuf);

 return 0;
}
```
--

FILES

[verse]

--

event-parse.h

 Header file to include in order to have access to the library APIs.

-ltraceevent

 Linker switch to add when building a program that uses the library.

--

SEE ALSO

---

libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]

--

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.

--

REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

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RESOURCES
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libtraceevent(3)
================

NAME
----
kbuffer_alloc, kbuffer_dup, kbuffer_free, kbuffer_load_subbuffer, kbuffer_subbuffer, kbuffer_refresh, kbuffer_subbuffer_size, kbuffer_start_of_data - Creating of kbuffer element to parse the Linux kernel tracing ring buffer

SYNOPSIS

[verse]
--
#include <kbuffer.h>

enum kbuffer_endian {
 KBUFFER_ENDIAN_BIG,
 KBUFFER_ENDIAN_LITTLE,
 KBUFFER_ENDIAN_SAME_AS_HOST,
};

enum kbuffer_long_size {
 KBUFFER_LSIZE_4,
 KBUFFER_LSIZE_8,
 KBUFFER_LSIZE_SAME_AS_HOST,
};

struct kbuffer;
struct tep_handle;

struct kbuffer pass:[*]*kbuffer_alloc*(enum kbuffer_long_size _size_, enum kbuffer_endian _endian_);
struct kbuffer pass:[*]*kbuffer_dup*(struct kbuffer pass:[*]_kbuf_);
void *kbuffer_free*(struct kbuffer pass:[*]_kbuf_);

int *kbuffer_load_subbuffer*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuffer_);
int *kbuffer_subbuffer_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_refresh*(struct
kbuffer pass:[*]_kbuf_);
int *kbuffer_start_of_data*(struct kbuffer pass:[*]_kbuf_);
void pass:[*]*kbuffer_subbuffer*(struct kbuffer pass:[*]_kbuf);
--

DESCRIPTION

These functions create a _kbuffer_ handle that can be used to parse the raw sub buffers
of the Linux kernel tracing ring buffer. The ring buffer is found in the tracefs
directory, and can be retrieved by *tracefs_instance_get_file(3)* at
per_cpu/cpuX/trace_pipe_raw where *X* is replaced by the per CPU number of
the specified ring buffer. The ring buffer inside the kernel is split up per
CPU, such that the raw ring buffer must be retrieved per CPU as well.

The *kbuffer_alloc()* will create a descriptor that can be used to manage a sub buffer
read by the ring buffer. The _size_ parameter denotes what the word size is
for the given buffer (note, this works from reading raw data from machines other
than the machine that is calling this function). The _endian_ denotes the endian
for the machine.

If
endian is set to _KBUFFER_ENDIAN_SAME_AS_HOST_ the endian will be set to the same
as the host endianess, which is useful when the application is reading the
ring buffer data directly from the same machine it is running on.

If _size_ is set to _KBUFFER_LSIZE_SAME_AS_HOST_, if the word size is 8, it will
set the kbuffer descriptor to long size of 8. But if the size is 4, then it
will then perform a *uname(2)* call, and if the _machine_ field has the string "64"
in it, it will be set to 8 byte long size and not 4 byte. This is because the
ring buffer long size is dependent on the kernel and not user space.

The *kbuffer_dup()* function will duplicate an existing kbuffer structure with
an allocated new one. It will have all the properties of the passed in _kbuf_,
including pointing to the same subbuffer that was loaded in the _kbuf_.
It must be freed with *kbuffer_free()*.

The *kbuffer_free()* function will free the resources created by *kbuffer_alloc()*.

The *kbuffer_load_subbuffer()*
will take a _subbuffer_ which is a raw data blob
from the tracefs *trace_pipe_raw* file. The Linux tracing ring buffer is broken up
into sub buffers. Each sub buffer is as stand alone data segment that has all the
information to split out the individual events and time stamps. This sub buffer
is what kbuffer uses to walk the events.

The *kbuffer_subbuffer_size()* returns the location of the end of the last event
on the sub-buffer. It does not return the size of the sub-buffer itself.

The *kbuffer_refresh()* is to be used if more writes were done on the loaded kbuffer
where the size of the kbuffer needs to be refreshed to be able to read the new
events that were written since the last *kbuffer_load_subbuffer()* was called on it.

Note, no memory barriers are implemented with this function and any synchronization
with the writer is the responsibility of the application.

The *kbuffer_start_of_data()* function returns the offset of where the actual
data load of the sub-buffer
begins.

The *kbuffer_subbuffer()* function returns the pointer to the currently loaded
subbuffer. That is, the last subbuffer that was loaded by *kbuffer_load_subbuffer()*.
If no subbuffer was loaded NULL is returned.

RETURN VALUE
---
kbuffer_alloc() returns an allocated kbuffer descriptor or NULL on error.
The returned descriptor must be freed with *kbuffer_free()*

kbuffer_load_subbuffer() returns 0 on success and -1 on error.

kbuffer_subbuffer_size() returns the index on the subbuffer where the end
of the last event is located.

kbuffer_start_of_data() returns the offset of where the data begins on the
sub-buffer loaded in _kbuf_.

kbuffer_subbuffer() returns the last loaded subbuffer to _kbuf_ that was loaded
by *kbuffer_load_subbuffer()* or NULL if none was loaded.

kbuffer_refresh() returns 0 on success and -1 if _kbuf_ is NULL or it does not
have a subbuffer loaded via *kbuffer_load_subbuffer()*.

EXAMPLE

[source,c]
--
#include <stdio.h>
#include
 <stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/stat.h>

```
#include <kbuffer.h>

int main (int argc, char **argv)
{
 unsigned long long ts;
 struct kbuffer *kbuf;
 struct stat st;
 char *buf;
 void *event;
 int ret;
 int fd;
 int i = 0;

 if (argc < 2) {
  printf("usage: %s raw-subbuffer-page\n", argv[0]);
  printf(" Try: dd count=1 bs=4096 if=/sys/kernel/tracing/per_cpu/cpu0/trace_pipe_raw of=/tmp/file\n");
  exit(0);
 }

 if (stat(argv[1], &st) < 0) {
  perror("stat");
  exit(-1);
 }

 buf = malloc(st.st_size);
 if (!buf) {
  perror("Allocating buffer");
  exit(-1);
 }

 fd = open(argv[1], O_RDONLY);
 if (fd < 0) {
  perror(argv[1]);
  exit(-1);
 }

 ret = read(fd, buf, st.st_size);
 if (ret < 0) {
  perror("Reading buffer");
  exit(-1);
 }
 close(fd);

 kbuf = kbuffer_alloc(KBUFFER_ENDIAN_SAME_AS_HOST,
       KBUFFER_LSIZE_SAME_AS_HOST);
 if (!kbuf) {
  perror("Creating kbuffer");
  exit(-1);
```

```
 }
ret = kbuffer_load_subbuffer(kbuf, buf);
if (ret < 0) {
 perror("Loading
sub bufer");
 exit(-1);
}

if (kbuffer_subbuffer_size(kbuf) > st.st_size) {
 fprintf(stderr, "kbuffer is bigger than raw size %d > %ld\n",
  kbuffer_subbuffer_size(kbuf), st.st_size);
 exit(-1);
}

printf("Kbuffer data starts at %d\n", kbuffer_start_of_data(kbuf));
do {
 event = kbuffer_read_event(kbuf, &ts);
 if (event) {
  printf(" event %3d ts:%lld\n", i++, ts);
  event = kbuffer_next_event(kbuf, NULL);
 }
} while (event);

if (!event)
 printf("Finished sub buffer\n");

kbuffer_free(kbuf);

return 0;
}
--
FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
```

--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
--
REPORTING BUGS

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RESOURCES
---
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* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-kbuffer-create.txt
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libtraceevent(3)
==========

NAME
---
tep_load_plugins, tep_unload_plugins, tep_load_plugins_hook, tep_add_plugin_path,
tep_plugin_add_option - Load / unload traceevent plugins.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_plugin_list pass:[*]*tep_load_plugins*(struct tep_handle pass:[*]_tep_);
void *tep_unload_plugins*(struct tep_plugin_list pass:[*]_plugin_list_, struct tep_handle pass:[*]_tep_);
void *tep_load_plugins_hook*(struct tep_handle pass:[*]_tep_, const char pass:[*]_suffix_,
     void (pass:[*]_load_plugin_)(struct tep_handle pass:[*]tep,
          const char pass:[*]path,
          const char pass:[*]name,
          void pass:[*]data),
     void pass:[*]_data_);
int *tep_add_plugin_path*(struct tep_handle pass:[*]tep, char pass:[*]path,
    enum tep_plugin_load_priority prio);
int *tep_plugin_add_option*(const char pass:[*]_name_, const char pass:[*]_val_);
--

DESCRIPTION

The
tep_load_plugins() function loads all plugins, located in the plugin
directories. The _tep_ argument is trace event parser context.
The plugin directories are :
[verse]
--
- Directories, specified in _tep_->plugins_dir with priority TEP_PLUGIN_FIRST
- System's plugin directory, defined at the library compile time. It
  depends on the library installation prefix and usually is
  _(install_preffix)/lib/traceevent/plugins_
- Directory, defined by the environment variable _TRACEEVENT_PLUGIN_DIR_
- User's plugin directory, located at _~/.local/lib/traceevent/plugins_
- Directories, specified in _tep_->plugins_dir with priority TEP_PLUGIN_LAST
--
Loading of plugins can be controlled by the _tep_flags_, using the
tep_set_flag() API:
[verse]
--
_TEP_DISABLE_SYS_PLUGINS_ - do not load plugins, located in
    the system's plugin directory.
_TEP_DISABLE_PLUGINS_ - do not load any plugins.
--
The *tep_set_flag()* API needs to be called before *tep_load_plugins()*,
if
loading of all plugins is not the desired case.

The *tep_unload_plugins()* function unloads the plugins, previously loaded by
tep_load_plugins(). The _tep_ argument is trace event parser context. The
_plugin_list_ is the list of loaded plugins, returned by
the *tep_load_plugins()* function.

The *tep_load_plugins_hook()* function walks through all directories with plugins
and calls user specified *load_plugin()* hook for each plugin file. Only files
with given _suffix_ are considered to be plugins. The _data_ is a user specified
context, passed to *load_plugin()*. Directories and the walk order are the same
as in *tep_load_plugins()* API.

The *tep_add_plugin_path()* functions adds additional directories with plugins in
the _tep_->plugins_dir list. It must be called before *tep_load_plugins()* in order
for the plugins from the new directories to be loaded. The _tep_ argument is
the trace event parser context. The _path_ is the full path to the new plugin
directory. The _prio_
argument specifies the loading priority order for the
new directory of plugins. The loading priority is important in case of different
versions of the same plugin located in multiple plugin directories.The last loaded
plugin wins. The priority can be:

[verse]
--
_TEP_PLUGIN_FIRST_ - Load plugins from this directory first
_TEP_PLUGIN_LAST_ - Load plugins from this directory last
--
Where the plugins in TEP_PLUGIN_LAST" will take precedence over the
plugins in the other directories.

The *tep_plugin_add_option()* sets options defined by a plugin. The _name_ is the
name of the option to set to _val_. Plugins can add options to change its behavior
and *tep_plugin_add_option()* is used by the application to make those modifications.

RETURN VALUE

The *tep_load_plugins()* function returns a list of successfully loaded plugins,
or NULL in case no plugins are loaded.
The *tep_add_plugin_path()* function returns -1 in case of an error, 0 otherwise.

EXAMPLE

[source,c]
--
#include
<event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
tep_add_plugin_path(tep, "~/dev_plugins", TEP_PLUGIN_LAST);
...
struct tep_plugin_list *plugins = tep_load_plugins(tep);
if (plugins == NULL) {
/* no plugins are loaded */
}
...
tep_unload_plugins(plugins, tep);
...
void print_plugin(struct tep_handle *tep, const char *path,
  const char *name, void *data)
{
pritnf("Found libtraceevent plugin %s/%s\n", path, name);
}
...
tep_load_plugins_hook(tep, ".so", print_plugin, NULL);
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1), *tep_set_flag*(3)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
================

NAME
----
tep_register_event_handler, tep_unregister_event_handler - Register / unregisters a callback function to parse an event information.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_reg_handler* {
 _TEP_REGISTER_SUCCESS_,
 _TEP_REGISTER_SUCCESS_OVERWRITE_,
};

int *tep_register_event_handler*(struct tep_handle pass:[*]_tep_, int _id_, const char pass:[*]_sys_name_, const char pass:[*]_event_name_, tep_event_handler_func _func_, void pass:[*]_context_);
int *tep_unregister_event_handler*(struct tep_handle pass:[*]tep, int id, const char pass:[*]sys_name, const char pass:[*]event_name, tep_event_handler_func func, void pass:[*]_context_);

typedef int (*pass:[*]tep_event_handler_func*)(struct trace_seq pass:[*]s, struct tep_record pass:[*]record, struct tep_event pass:[*]event, void pass:[*]context);
--

DESCRIPTION

The *tep_register_event_handler()*
 function registers a handler function,
which is going to be called to parse the information for a given event.
The _tep_ argument is the trace event parser context. The _id_ argument is
the id of the event. The _sys_name_ argument is the name of the system,
the event belongs to. The _event_name_ argument is the name of the event.
If _id_ is >= 0, it is used to find the event, otherwise _sys_name_ and
_event_name_ are used. The _func_ is a pointer to the function, which is going
to be called to parse the event information. The _context_ argument is a pointer
to the context data, which will be passed to the _func_. If a handler function
for the same event is already registered, it will be overridden with the new
one. This mechanism allows a developer to override the parsing of a given event.
If for some reason the default print format is not sufficient, the developer
can register a function for an event to be used to parse the data instead.

The *tep_unregister_event_handler()* function
 unregisters the handler function,
previously registered with *tep_register_event_handler()*. The _tep_ argument
is the trace event parser context. The _id_, _sys_name_, _event_name_, _func_,
and _context_ are the same arguments, as when the callback function _func_ was
registered.

The _tep_event_handler_func_ is the type of the custom event handler
function. The _s_ argument is the trace sequence, it can be used to create a
custom string, describing the event. A _record_ to get the event from is passed
as input parameter and also the _event_ - the handle to the record's event. The
context is custom context, set when the custom event handler is registered.

RETURN VALUE

The *tep_register_event_handler()* function returns _TEP_REGISTER_SUCCESS_
if the new handler is registered successfully or
_TEP_REGISTER_SUCCESS_OVERWRITE_ if an existing handler is overwritten.
If there is not enough memory to complete the registration,
TEP_ERRNO__MEM_ALLOC_FAILED is returned.

The
 tep_unregister_event_handler() function returns 0 if _func_ was removed
successful or, -1 if the event was not found.

The _tep_event_handler_func_ should return -1 in case of an error,
or 0 otherwise.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
int timer_expire_handler(struct trace_seq *s, struct tep_record *record,
    struct tep_event *event, void *context)
{
 trace_seq_printf(s, "hrtimer=");

 if (tep_print_num_field(s, "0x%llx", event, "timer", record, 0) == -1)
  tep_print_num_field(s, "0x%llx", event, "hrtimer", record, 1);

 trace_seq_printf(s, " now=");

 tep_print_num_field(s, "%llu", event, "now", record, 1);

 tep_print_func_field(s, " function=%s", event, "function", record, 0);

 return 0;
}
...
 int ret;

 ret = tep_register_event_handler(tep, -1, "timer", "hrtimer_expire_entry",
      timer_expire_handler, NULL);
 if (ret < 0) {
  char buf[32];
```

```
 tep_strerror(tep, ret, buf, 32)
 printf("Failed
to register handler for hrtimer_expire_entry: %s\n", buf);
 } else {
 switch (ret) {
 case TEP_REGISTER_SUCCESS:
  printf ("Registered handler for hrtimer_expire_entry\n");
  break;
 case TEP_REGISTER_SUCCESS_OVERWRITE:
  printf ("Overwrote handler for hrtimer_expire_entry\n");
  break;
 }
}
...
 ret = tep_unregister_event_handler(tep, -1, "timer", "hrtimer_expire_entry",
       timer_expire_handler, NULL);
 if ( ret )
  printf ("Failed to unregister handler for hrtimer_expire_entry\n");
```

--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
trace-seq.h
 Header file to include in order to have access to trace sequences
 related APIs. Trace sequences are used to allow a function to call
 several other functions to create a string of data to use.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
*Steven
 Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
==========

NAME
---
tep_print_field_content, tep_print_fields, tep_print_num_field, tep_print_func_field, tep_record_print_fields, tep_record_print_selected_fields -
Print the field content.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

void *tep_print_field_content*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int size, struct tep_format_field pass:[*]_field_);
void *tep_print_fields*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int _size_, struct tep_event pass:[*]_event_);
int *tep_print_num_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int _err_);
int *tep_print_func_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int
 err);
void *tep_record_print_fields*(struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event_);
void *tep_record_print_selected_fields*(struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event_, int _select_mask_);
--

DESCRIPTION

These functions print recorded field's data, according to the field's type.

The *tep_print_field_content()* function extracts from the recorded raw _data_ value of the _field_ and prints it into _s_, according to the field type.

The *tep_print_fields()* prints each field name followed by the record's field value according to the field's type:
[verse]
--
"field1_name=field1_value field2_name=field2_value ..."
--
It iterates all fields of the _event_, and calls *tep_print_field_content()* for each of them.

The *tep_print_num_field()* function prints a numeric field with given format string. A search is performed in the _event_ for a field with _name_. If such field
is found, its value is extracted from the _record_ and is printed in the _s_, according to the given format string _fmt_. If the argument _err_ is non-zero, and an error occures - it is printed in the _s_.

The *tep_print_func_field()* function prints a function field with given format string. A search is performed in the _event_ for a field with _name_. If such field is found, its value is extracted from the _record_. The value is assumed to be a function address, and a search is perform to find the name of this function. The function name (if found) and its address are printed in the _s_, according to the given format string _fmt_. If the argument _err_ is non-zero, and an error occures - it is printed in _s_.

The *tep_record_print_fields()* prints the field's name followed by its value for all record's field.

The *tep_record_print_selected_fields()* prints the field's name followed by its value for selected subset of record field. The fields to be printed are defined by the _select_mask_
bit mask.

RETURN VALUE

The *tep_print_num_field()* and *tep_print_func_field()* functions return 1 on success, -1 in case of an error or 0 if the print buffer _s_ is full.

EXAMPLE

[source,c]
--
#include <event-parse.h>

```
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
struct trace_seq seq;
trace_seq_init(&seq);
struct tep_event *event = tep_find_event_by_name(tep, "timer", "hrtimer_start");
...
void process_record(struct tep_record *record)
{
 struct tep_format_field *field_pid = tep_find_common_field(event, "common_pid");

 trace_seq_reset(&seq);

 /* Print the value of "common_pid" */
 tep_print_field_content(&seq, record->data, record->size, field_pid);

 /* Print all fields of the "hrtimer_start" event */
 tep_print_fields(&seq, record->data, record->size, event);

 /* Print the value of "expires" field with custom format string */
 tep_print_num_field(&seq, " timer expires in %llu ", event, "expires", record, 0);

 /* Print the
 address and the name of "function" field with custom format string */
 tep_print_func_field(&seq, " timer function is %s ", event, "function", record, 0);
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*trace-seq.h*
 Header file to include in order to have access to trace sequences related APIs.
 Trace sequences are used to allow a function to call several other functions
 to create a string of data to use.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)
```

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
================

NAME
----
tep_get_cpus, tep_set_cpus - Get / set the number of CPUs, which have a tracing
buffer representing it. Note, the buffer may be empty.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_get_cpus*(struct tep_handle pass:[*]_tep_);
void *tep_set_cpus*(struct tep_handle pass:[*]_tep_, int _cpus_);
--

DESCRIPTION

The *tep_get_cpus()* function gets the number of CPUs, which have a tracing
buffer representing it. The _tep_ argument is trace event parser context.

The *tep_set_cpus()* function sets the number of CPUs, which have a tracing
buffer representing it. The _tep_ argument is trace event parser context.
The _cpu_ argument is the number of CPUs with tracing data.

RETURN VALUE

The *tep_get_cpus()* functions returns the number of CPUs, which have tracing
data recorded.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct
 tep_handle *tep = tep_alloc();
...
 tep_set_cpus(tep, 5);
...
 printf("We have tracing data for %d CPUs", tep_get_cpus(tep));
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)
==========

NAME
---
tep_data_type, tep_data_pid,tep_data_preempt_count, tep_data_flags -
Extract common fields from a record.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *trace_flag_type* {
 _TRACE_FLAG_IRQS_OFF_,
 _TRACE_FLAG_IRQS_NOSUPPORT_,
 _TRACE_FLAG_NEED_RESCHED_,
 _TRACE_FLAG_HARDIRQ_,
 _TRACE_FLAG_SOFTIRQ_,
};

int *tep_data_type*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_pid*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_preempt_count*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
int *tep_data_flags*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
--

DESCRIPTION

This set of functions can be used to extract common fields from a record.

The *tep_data_type()* function gets the event id from the record _rec_.
It reads the "common_type" field.

The _tep_ argument is the trace event parser
context.

The *tep_data_pid()* function gets the process id from the record _rec_.
It reads the "common_pid" field. The _tep_ argument is the trace event parser
context.

The *tep_data_preempt_count()* function gets the preemption count from the
record _rec_. It reads the "common_preempt_count" field. The _tep_ argument is
the trace event parser context.

The *tep_data_flags()* function gets the latency flags from the record _rec_.
It reads the "common_flags" field. The _tep_ argument is the trace event parser
context. Supported latency flags are:
[verse]
--
_TRACE_FLAG_IRQS_OFF_, Interrupts are disabled.
_TRACE_FLAG_IRQS_NOSUPPORT_, Reading IRQ flag is not supported by the architecture.
_TRACE_FLAG_NEED_RESCHED_, Task needs rescheduling.
_TRACE_FLAG_HARDIRQ_, Hard IRQ is running.
_TRACE_FLAG_SOFTIRQ_, Soft IRQ is running.
--

RETURN VALUE

The *tep_data_type()* function returns an integer, representing the event id.

The
tep_data_pid() function returns an integer, representing the process id

The *tep_data_preempt_count()* function returns an integer, representing the
preemption count.

The *tep_data_flags()* function returns an integer, representing the latency
flags. Look at the _trace_flag_type_ enum for supported flags.

All these functions in case of an error return a negative integer.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
void process_record(struct tep_record *record)
{

```
 int data;

 data = tep_data_type(tep, record);
 if (data >= 0) {
  /* Got the ID of the event */
 }

 data = tep_data_pid(tep, record);
 if (data >= 0) {
  /* Got the process ID */
 }

 data = tep_data_preempt_count(tep, record);
 if (data >= 0) {
  /* Got the preemption count */
 }

 data = tep_data_flags(tep, record);
 if (data >= 0) {
  /* Got the latency flags */
 }
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access
 to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
==========

NAME
---
tep_register_comm, tep_override_comm, tep_is_pid_registered,
tep_data_comm_from_pid, tep_data_pid_from_comm, tep_cmdline_pid -
Manage pid to process name mappings.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_register_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
int *tep_override_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
bool *tep_is_pid_registered*(struct tep_handle pass:[*]_tep_, int _pid_);
const char pass:[*]*tep_data_comm_from_pid*(struct tep_handle pass:[*]_pevent_, int _pid_);
struct cmdline pass:[*]*tep_data_pid_from_comm*(struct tep_handle pass:[*]_pevent_, const char pass:[*]_comm_, struct cmdline pass:[*]_next_);
int *tep_cmdline_pid*(struct tep_handle pass:[*]_pevent_, struct cmdline pass:[*]_cmdline_);
--

DESCRIPTION

These functions can be used to handle the
 mapping between pid and process name.
The library builds a cache of these mappings, which is used to display the name
of the process, instead of its pid. This information can be retrieved from
tracefs/saved_cmdlines file.

The *tep_register_comm()* function registers a _pid_ / process name mapping.
If a command with the same _pid_ is already registered, an error is returned.
The _pid_ argument is the process ID, the _comm_ argument is the process name,
tep is the event context. The _comm_ is duplicated internally.

The *tep_override_comm()* function registers a _pid_ / process name mapping.
If a process with the same pid is already registered, the process name string is
udapted with the new one. The _pid_ argument is the process ID, the _comm_
argument is the process name, _tep_ is the event context. The _comm_ is
duplicated internally.

The *tep_is_pid_registered()* function checks if a pid has a process name
mapping registered. The _pid_ argument is the process ID, _tep_ is the event
context.

The
tep_data_comm_from_pid() function returns the process name for a given
pid. The _pid_ argument is the process ID, _tep_ is the event context.
The returned string should not be freed, but will be freed when the _tep_
handler is closed.

The *tep_data_pid_from_comm()* function returns a pid for a given process name.
The _comm_ argument is the process name, _tep_ is the event context.
The argument _next_ is the cmdline structure to search for the next pid.
As there may be more than one pid for a given process, the result of this call
can be passed back into a recurring call in the _next_ parameter, to search for
the next pid. If _next_ is NULL, it will return the first pid associated with
the _comm_. The function performs a linear search, so it may be slow.

The *tep_cmdline_pid()* function returns the pid associated with a given
cmdline. The _tep_ argument is the event context.

RETURN VALUE
---
tep_register_comm() function returns 0 on success. In case of
an error -1 is
returned and errno is set to indicate the cause of the problem: ENOMEM, if there
is not enough memory to duplicate the _comm_ or EEXIST if a mapping for this
pid is already registered.

tep_override_comm() function returns 0 on success. In case of an error -1 is
returned and errno is set to indicate the cause of the problem: ENOMEM, if there
is not enough memory to duplicate the _comm_.

tep_is_pid_registered() function returns true if the _pid_ has a process name
mapped to it, false otherwise.

tep_data_comm_from_pid() function returns the process name as string, or the

string "<...>" if there is no mapping for the given pid.

tep_data_pid_from_comm() function returns a pointer to a struct cmdline, that holds a pid for a given process, or NULL if none is found. This result can be passed back into a recurring call as the _next_ parameter of the function.

tep_cmdline_pid() functions returns the pid for the give cmdline. If _cmdline_ is NULL, then -1 is returned.

EXAMPLE

The
 following example registers pid for command "ls", in context of event _tep_ and performs various searches for pid / process name mappings:
[source,c]
--
#include <event-parse.h>
...
int ret;
int ls_pid = 1021;
struct tep_handle *tep = tep_alloc();
...
 ret = tep_register_comm(tep, "ls", ls_pid);
 if (ret != 0 && errno == EEXIST)
  ret = tep_override_comm(tep, "ls", ls_pid);
 if (ret != 0) {
  /* Failed to register pid / command mapping */
 }
...
 if (tep_is_pid_registered(tep, ls_pid) == 0) {
  /* Command mapping for ls_pid is not registered */
 }
...
 const char *comm = tep_data_comm_from_pid(tep, ls_pid);
 if (comm) {
  /* Found process name for ls_pid */
 }
...
 int pid;
 struct cmdline *cmd = tep_data_pid_from_comm(tep, "ls", NULL);
 while (cmd) {
  pid = tep_cmdline_pid(tep, cmd);
  /* Found pid for process "ls" */
  cmd = tep_data_pid_from_comm(tep, "ls", cmd);
 }
--
FILES

[verse]
--
event-parse.h
 Header file to include in order to have access
 to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
================

NAME
----
tep_parse_header_page - Parses the data stored in the header page.

SYNOPSIS

[verse]
--

#include <event-parse.h>

int *tep_parse_header_page*(struct tep_handle pass:[*]_tep_, char pass:[*]_buf_, unsigned long _size_, int _long_size_);
--

DESCRIPTION

The *tep_parse_header_page()* function parses the header page data from _buf_, and initializes the _tep_, trace event parser context, with it. The buffer _buf_ is with _size_, and is supposed to be copied from tracefs/events/header_page.

Some old kernels do not have header page info, in this case the *tep_parse_header_page()* function can be called with _size_ equal to 0. The _tep_ context is initialized with default values. The _long_size_ can be used in this use case, to set the size of a long integer to be used.

RETURN VALUE

The *tep_parse_header_page()* function returns 0 in case of success, or -1 in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
char *buf;
int size;
buf = read_file("/sys/kernel/tracing/events/header_page", &size);
if (tep_parse_header_page(tep, buf, size, sizeof(unsigned long)) != 0) {
 /* Failed to parse the header page */
}
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent

Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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libtraceevent(3)
================

NAME
----
tep_strerror - Returns a string describing regular errno and tep error number.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_strerror*(struct tep_handle pass:[*]_tep_, enum tep_errno _errnum_, char pass:[*]_buf_, size_t _buflen_);

--

DESCRIPTION

The *tep_strerror()* function converts tep error number into a human readable string.
The _tep_ argument is trace event parser context. The _errnum_ is a regular errno, defined in errno.h, or a tep error number. The string, describing this error number is copied in the _buf_ argument. The _buflen_ argument is the size of the _buf_.

It as a thread safe wrapper around strerror_r(). The library function has two different behaviors - POSIX and GNU specific. The *tep_strerror()* API always behaves as the POSIX version - the error string is copied in the user supplied buffer.

RETURN VALUE

The
tep_strerror() function returns 0, if a valid _errnum_ is passed and the string is copied into _buf_. If _errnum_ is not a valid error number, -1 is returned and _buf_ is not modified.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
char buf[32];
char *pool = calloc(1, 128);
if (tep == NULL) {
 tep_strerror(tep, TEP_ERRNO__MEM_ALLOC_FAILED, buf, 32);
 printf ("The pool is not initialized, %s", buf);
}
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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libtraceevent(3)
================

NAME
----
tep_set_flag, tep_clear_flag, tep_test_flag -
Manage flags of trace event parser context.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_flag* {
 _TEP_NSEC_OUTPUT_,
 _TEP_DISABLE_SYS_PLUGINS_,
 _TEP_DISABLE_PLUGINS_
};

void *tep_set_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
void *tep_clear_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
bool *tep_test_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
--

DESCRIPTION

Trace event parser context flags are defined in *enum tep_flag*:
[verse]
--
_TEP_NSEC_OUTPUT_ - print event's timestamp in nano seconds, instead of micro seconds.
_TEP_DISABLE_SYS_PLUGINS_ - disable plugins, located in system's plugin
  directory. This directory is defined at library compile
  time, and usually depends on library installation
  prefix: (install_preffix)/lib/traceevent/plugins
_TEP_DISABLE_PLUGINS_
 - disable all library plugins:
  - in system's plugin directory
  - in directory, defined by the environment variable _TRACEEVENT_PLUGIN_DIR_
  - in user's home directory, _~/.traceevent/plugins_
--
Note: plugin related flags must me set before calling *tep_load_plugins()* API.

The *tep_set_flag()* function sets _flag_ to _tep_ context.

The *tep_clear_flag()* function clears _flag_ from _tep_ context.

The *tep_test_flag()* function tests if _flag_ is set to _tep_ context.

RETURN VALUE
---
tep_test_flag() function returns true if _flag_ is set, false otherwise.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
/* Print timestamps in nanoseconds */
tep_set_flag(tep, TEP_NSEC_OUTPUT);
...
if (tep_test_flag(tep, TEP_NSEC_OUTPUT)) {
 /* print timestamps in nanoseconds */
} else {
 /* print timestamps in microseconds */

```
}
...
/* Print timestamps in microseconds */
tep_clear_flag(tep, TEP_NSEC_OUTPUT);
...
--
FILES
-----
[verse]
--
*event-parse.h*
 Header
 file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
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*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)
================
```

NAME
----
tep_read_number - Reads a number from raw data.

SYNOPSIS

[verse]
--
#include <event-parse.h>

unsigned long long *tep_read_number*(struct tep_handle pass:[*]_tep_, const void pass:[*]_ptr_, int _size_);
--

DESCRIPTION

The *tep_read_number()* function reads an integer from raw data, taking into
account the endianness of the raw data and the current host. The _tep_ argument
is the trace event parser context. The _ptr_ is a pointer to the raw data, where
the integer is, and the _size_ is the size of the integer.

RETURN VALUE

The *tep_read_number()* function returns the integer in the byte order of
the current host. In case of an error, 0 is returned.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
void process_record(struct tep_record *record)
{
 int offset = 24;
 int data = tep_read_number(tep,
 record->data + offset, 4);

 /* Read the 4 bytes at the offset 24 of data as an integer */
}
...
--

FILES

[verse]
--

event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
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libtraceevent(3)
================

NAME
----
tep_set_loglevel - Set log level of the library

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_loglevel* {
 TEP_LOG_NONE = 0,
 TEP_LOG_CRITICAL,
 TEP_LOG_ERROR,
 TEP_LOG_WARNING,
 TEP_LOG_INFO,
 TEP_LOG_DEBUG,
 TEP_LOG_ALL
};

int *tep_set_loglevel*(enum tep_loglevel _level_);

--
DESCRIPTION

The *tep_set_loglevel()* function sets the level of the library logs that will be printed
on the console. Library log levels are:
[verse]
--
 _TEP_LOG_NONE_ - Do not print any logs.
 _TEP_LOG_CRITICAL_ - Print critical logs, problem that may cause a crash.
 _TEP_LOG_ERROR_ - Print error logs, problem that could break the main logic of an API.
 _TEP_LOG_WARNING_ - Print warnings, problem that could limit the result of an API.
 _TEP_LOG_INFO_ - Print information about normal execution of an API.
 _TEP_LOG_DEBUG_ - Print debug information.
 _TEP_LOG_ALL_
 - Print logs from all levels.
--
Setting the log level to specific value means that logs from the previous levels will be printed
too. For example _TEP_LOG_WARNING_ will print any logs with severity _TEP_LOG_WARNING_,
_TEP_LOG_ERROR_ and _TEP_LOG_CRITICAL_. The default log level is _TEP_LOG_CRITICAL_.

EXAMPLE

[source,c]
--
#include <event-parse.h>

tep_set_loglevel(TEP_LOG_ALL);
...
/* call libtraceevent APIs and observe any logs they produce */
...

tep_set_loglevel(TEP_LOG_CRITICAL);
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
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Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
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libtraceevent(3)
================

NAME
----
tep_register_print_function,tep_unregister_print_function -

Registers / Unregisters a helper function.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_func_arg_type* {
 TEP_FUNC_ARG_VOID,
 TEP_FUNC_ARG_INT,
 TEP_FUNC_ARG_LONG,
 TEP_FUNC_ARG_STRING,
 TEP_FUNC_ARG_PTR,
 TEP_FUNC_ARG_MAX_TYPES
};

typedef unsigned long long (*pass:[*]tep_func_handler*)(struct trace_seq pass:[*]s, unsigned long long pass:[*]args);

int *tep_register_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, enum tep_func_arg_type _ret_type_, char pass:[*]_name_, _..._);
int *tep_unregister_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, char pass:[*]_name_);
--

DESCRIPTION

Some events may have helper functions in the print format arguments.
This allows a plugin to dynamically create a way to process one of
these functions.

The
 tep_register_print_function() registers such helper function. The _tep_
argument is the trace event parser context. The _func_ argument is a pointer
to the helper function. The _ret_type_ argument is the return type of the
helper function, value from the _tep_func_arg_type_ enum. The _name_ is the name
of the helper function, as seen in the print format arguments. The _..._ is a
variable list of _tep_func_arg_type_ enums, the _func_ function arguments.
This list must end with _TEP_FUNC_ARG_VOID_. See 'EXAMPLE' section.

The *tep_unregister_print_function()* unregisters a helper function, previously
registered with *tep_register_print_function()*. The _tep_ argument is the
trace event parser context. The _func_ and _name_ arguments are the same, used
when the helper function was registered.

The _tep_func_handler_ is the type of the helper function. The _s_ argument is
the trace sequence, it can be used to create a custom string.

The _args_ is a list of arguments, defined when
the helper function was
registered.

RETURN VALUE

The *tep_register_print_function()* function returns 0 in case of success.
In case of an error, TEP_ERRNO_... code is returned.

The *tep_unregister_print_function()* returns 0 in case of success, or -1 in
case of an error.

EXAMPLE

Some events have internal functions calls, that appear in the print format
output. For example "tracefs/events/i915/g4x_wm/format" has:
[source,c]
--
print fmt: "pipe %c, frame=%u, scanline=%u, wm %d/%d/%d, sr %s/%d/%d/%d, hpll %s/%d/%d/%d, fbc %s",
    ((REC->pipe) + 'A'), REC->frame, REC->scanline, REC->primary,
    REC->sprite, REC->cursor, yesno(REC->cxsr), REC->sr_plane,
    REC->sr_cursor, REC->sr_fbc, yesno(REC->hpll), REC->hpll_plane,
    REC->hpll_cursor, REC->hpll_fbc, yesno(REC->fbc)
--
Notice the call to function *yesno()* in the print arguments. In the kernel
context, this function has the following implementation:
[source,c]
--
static const char *yesno(int x)
{
 static
 const char *yes = "yes";
 static const char *no = "no";

 return x ? yes : no;
}
--
The user space event parser has no idea how to handle this *yesno()* function.
The *tep_register_print_function()* API can be used to register a user space
helper function, mapped to the kernel's *yesno()*:
[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
static const char *yes_no_helper(int x)

```
{
 return x ? "yes" : "no";
}
...
 if ( tep_register_print_function(tep,
        yes_no_helper,
        TEP_FUNC_ARG_STRING,
        "yesno",
        TEP_FUNC_ARG_INT,
        TEP_FUNC_ARG_VOID) != 0) {
  /* Failed to register yes_no_helper function */
 }

/*
  Now, when the event parser encounters this yesno() function, it will know
  how to handle it.
*/
...
 if (tep_unregister_print_function(tep, yes_no_helper, "yesno") != 0) {
  /* Failed to unregister yes_no_helper function */
 }
```
--

FILES

[verse]
--
event-parse.h
 Header file to include
 in order to have access to the library APIs.
trace-seq.h
 Header file to include in order to have access to trace sequences
 related APIs. Trace sequences are used to allow a function to call
 several other functions to create a string of data to use.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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libtraceevent(3)
==========

NAME
---
tep_get_long_size, tep_set_long_size - Get / set the size of a long integer on the machine, where the trace is generated, in bytes

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_get_long_size*(strucqt tep_handle pass:[*]_tep_);
void *tep_set_long_size*(struct tep_handle pass:[*]_tep_, int _long_size_);
--

DESCRIPTION

The *tep_get_long_size()* function returns the size of a long integer on the machine, where the trace is generated. The _tep_ argument is trace event parser context.

The *tep_set_long_size()* function sets the size of a long integer on the machine, where the trace is generated. The _tep_ argument is trace event parser context.
The _long_size_ is the size of a long integer, in bytes.

RETURN VALUE

The *tep_get_long_size()* function returns the size of a long integer on the machine,

where the trace is generated, in
 bytes.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
tep_set_long_size(tep, 4);
...
int long_size = tep_get_long_size(tep);
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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libtraceevent(3)
==========

NAME
----
tep_print_event - Writes event information into a trace sequence.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

void *tep_print_event*(struct tep_handle pass:[*]_tep_, struct trace_seqpass:[*]_s_, struct tep_record pass:[*]_record_, const char pass:[*]_fmt_, _..._)
--

DESCRIPTION

The *tep_print_event()* function parses the event information of the given
record and writes it into the trace sequence _s_, according to the format
string _fmt_. The desired information is specified after the format string.
The _fmt_ is printf-like format string, following arguments are supported:
[verse]
--
 TEP_PRINT_PID, "%d" - PID of the event.
 TEP_PRINT_CPU, "%d" - Event CPU.
 TEP_PRINT_COMM, "%s" - Event command string.
 TEP_PRINT_NAME, "%s" - Event name.
 TEP_PRINT_LATENCY, "%s" - Latency of the event. It prints 4 or more
   fields -
 interrupt state, scheduling state,
   current context, and preemption count.
   Field 1 is the interrupt enabled state:
    d : Interrupts are disabled
    . : Interrupts are enabled
    X : The architecture does not support this
        information
   Field 2 is the "need resched" state.

N : The task is set to call the scheduler when
possible, as another higher priority task
may need to be scheduled in.
. : The task is not set to call the scheduler.
Field 3 is the context state.
. : Normal context
s : Soft interrupt context
h : Hard interrupt context
H : Hard interrupt context which triggered
during soft interrupt context.
z : NMI context
Z : NMI context which triggered during hard
interrupt context
Field 4 is the preemption count.
. : The preempt count is zero.
On preemptible kernels (where the task can be scheduled
out in arbitrary locations while in kernel context), the
preempt count, when non zero,
will prevent the kernel
from scheduling out the current task. The preempt count
number is displayed when it is not zero.
Depending on the kernel, it may show other fields
(lock depth, or migration disabled, which are unique to
specialized kernels).
TEP_PRINT_TIME, %d - event time stamp. A divisor and precision can be
specified as part of this format string:
"%precision.divisord". Example:
"%3.1000d" - divide the time by 1000 and print the first
3 digits before the dot. Thus, the time stamp
"123456000" will be printed as "123.456"
TEP_PRINT_INFO, "%s" - event information.
TEP_PRINT_INFO_RAW, "%s" - event information, in raw format.

--
EXAMPLE

[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>
...
struct trace_seq seq;
trace_seq_init(&seq);
struct tep_handle *tep = tep_alloc();
...
void print_my_event(struct tep_record *record)
{
trace_seq_reset(&seq);

```
 tep_print_event(tep, s, record, "%16s-%-5d [%03d] %s %6.1000d %s %s",
   TEP_PRINT_COMM,
 TEP_PRINT_PID, TEP_PRINT_CPU,
   TEP_PRINT_LATENCY, TEP_PRINT_TIME, TEP_PRINT_NAME,
   TEP_PRINT_INFO);
}
...
--
```

FILES

```
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*trace-seq.h*
 Header file to include in order to have access to trace sequences related APIs.
 Trace sequences are used to allow a function to call several other functions
 to create a string of data to use.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--
```

SEE ALSO

```
--------
*libtraceevent*(3), *trace-cmd*(1)
```

AUTHOR

```
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--
```

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```
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Report bugs to  <linux-trace-devel@vger.kernel.org>
```

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RESOURCES

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https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/
```

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in path(s):
* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-event_print.txt
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libtraceevent(3)
==========

NAME
----
tep_get_event, tep_get_first_event, tep_get_events_count - Access events.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_event pass:[*]*tep_get_event*(struct tep_handle pass:[*]_tep_, int _index_);
struct tep_event pass:[*]*tep_get_first_event*(struct tep_handle pass:[*]_tep_);
int *tep_get_events_count*(struct tep_handle pass:[*]_tep_);
--

DESCRIPTION

The *tep_get_event()* function returns a pointer to event at the given _index_.
The _tep_ argument is trace event parser context, the _index_ is the index of
the requested event.

The *tep_get_first_event()* function returns a pointer to the first event.
As events are stored in an array, this function returns the pointer to the
beginning of the array. The _tep_ argument is trace event parser context.

The *tep_get_events_count()* function returns the number of the events
in the array. The _tep_
argument is trace event parser context.

RETURN VALUE

The *tep_get_event()* returns a pointer to the event located at _index_.
NULL is returned in case of error, in case there are no events or _index_ is
out of range.

The *tep_get_first_event()* returns a pointer to the first event. NULL is
returned in case of error, or in case there are no events.

The *tep_get_events_count()* returns the number of the events. 0 is
returned in case of error, or in case there are no events.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
int i,count = tep_get_events_count(tep);
struct tep_event *event, *events = tep_get_first_event(tep);

if (events == NULL) {
 /* There are no events */
} else {
 for (i = 0; i < count; i++) {
  event = (events+i);
  /* process events[i] */
 }

 /* Get the last event */
 event = tep_get_event(tep, count-1);
}
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access
 to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
---
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
==========

NAME
---
tep_parse_event, tep_parse_format - Parse the event format information

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum tep_errno *tep_parse_event*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);
enum tep_errno *tep_parse_format*(struct tep_handle pass:[*]_tep_, struct tep_event pass:[*]pass:[*]_eventp_, const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);
--

DESCRIPTION

The *tep_parse_event()* function parses the event format and creates an event
structure to quickly parse raw data for a given event. The _tep_ argument is
the trace event parser context. The created event structure is stored in the
tep context. The _buf_ argument is a buffer with _size_, where the event
format data is. The event format data can be taken from
tracefs/events/.../.../format files. The
 sys argument is the system of
the event.

The *tep_parse_format()* function does the same as *tep_parse_event()*. The only
difference is in the extra _eventp_ argument, where the newly created event

structure is returned.

RETURN VALUE

Both *tep_parse_event()* and *tep_parse_format()* functions return 0 on success,
or TEP_ERRNO__... in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
char *buf;
int size;
struct tep_event *event = NULL;
buf = read_file("/sys/kernel/tracing/events/ftrace/print/format", &size);
if (tep_parse_event(tep, buf, size, "ftrace") != 0) {
 /* Failed to parse the ftrace print format */
}

if (tep_parse_format(tep, &event, buf, size, "ftrace") != 0) {
 /* Failed to parse the ftrace print format */
}
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that
 uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--

Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)
==========

NAME
---
tep_find_event,tep_find_event_by_name,tep_find_event_by_record, tep_record_is_event - Find events by given key.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_event pass:[*]*tep_find_event*(struct tep_handle pass:[*]_tep_, int _id_);
struct tep_event pass:[*]*tep_find_event_by_name*(struct tep_handle pass:[*]_tep_, const char pass:[*]_sys_, const char pass:[*]_name_);
struct tep_event pass:[*]*tep_find_event_by_record*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_record_);
bool *tep_record_is_event*(struct tep_record pass:[*]record, struct tep_event pass:[*]event);
--

DESCRIPTION

This set of functions can be used to search for an event, based on a given criteria. All functions require a pointer to a _tep_, trace event parser context.

The *tep_find_event()* function searches for an event by given event _id_. The event ID is
assigned dynamically and can be viewed in event's format file, "ID" field.

The *tep_find_event_by_name()* function searches for an event by given event _name_, under the system _sys_. If the _sys_ is NULL (not specified), the first event with _name_ is returned.

The *tep_find_event_by_record()* function searches for an event from a given _record_.

The *tep_record_is_event()* function tests if the given _record_ is of the type of the _event_. This is normally used to know if the _record_ being processed is of an _event_ where further processing should be done.

RETURN VALUE

All these functions except *tep_record_is_event()* return a pointer to the found event, or NULL if there is no such event.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
struct tep_event *event;

event = tep_find_event(tep, 1857);
if (event == NULL) {
 /* There is no event with ID 1857 */
}

event = tep_find_event_by_name(tep, "kvm", "kvm_exit");
if
 (event == NULL) {
 /* There is no kvm_exit event, from kvm system */
}

void event_from_record(struct tep_record *record)
{
struct tep_event *event = tep_find_event_by_record(tep, record);
 if (event == NULL) {
  /* There is no event from given record */
 }
```

}
...
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
================

NAME
----
tep_find_function,tep_find_function_address,tep_find_function_info - Find function name / start address.

SYNOPSIS

[verse]
--
#include <event-parse.h>

const char pass:[*]*tep_find_function*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_);
unsigned long long *tep_find_function_address*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_);
int *tep_find_function_info*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_, const char
pass:[**]_name_,
    unsigned long long pass:[*]_start_, unsigned long pass:[*]_size_);
--

DESCRIPTION

These functions can be used to find function name and start address, by given
address. The given address does not have to be exact, it will select the function
that would contain it.

The *tep_find_function()* function returns the function name, which contains the
given address _addr_. The _tep_
 argument is the trace event parser context.

The *tep_find_function_address()* function returns the function start address,
by given address _addr_. The _addr_ does not have to be exact, it will select the
function that would contain it. The _tep_ argument is the trace event parser context.

The *tep_find_function_info()* function retrieves the _name_, starting address (_start_),
and the function text _size_ of the function at _address_, if it is found. Note,
if the _tep_ handle has a function resolver (used by perf), then _size_ is set to
zero.

RETURN VALUE

The *tep_find_function()* function returns the function name, or NULL in case
it cannot be found.

The *tep_find_function_address()* function returns the function start address,
or 0 in case it cannot be found.

The *tep_find_function_info()* function returns 1 if a function is found for the
given address, or 0 if it is not.

EXAMPLE

[source,c]
--

```
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
void
 show_function_name(unsigned long long addr)
{
 const char *fname = tep_find_function(tep, addr);

 if (fname)
  printf("Found function %s at 0x%0llx\n", fname, addr);
 else
  printf("No function found at 0x%0llx\n", addr);
}

void show_function_start_addr(unsigned long long addr)
{
 const char *fname = tep_find_function(tep, addr);
 unsigned long long fstart;

 if (!fname) {
  printf("No function found at 0x%0llx\n", addr);
  return;
 }

 fstart = tep_find_function_address(tep, addr);
 printf("Function %s at 0x%llx starts at 0x%0llx\n",
        fname, addr, fstart);
}

void show_function_info(unsigned long long addr)
{
 const char *fname;
 unsigned long long fstart;
 unsigned long size;

 ret = tep_find_function_info(tep, addr, &fname, &fstart, &size);
 if (!ret) {
  printf("No function found at 0x%0lx\n", addr);
  return;
 }

 printf("Function %s at 0x%lx starts at 0x%0lx and is %ld in size\n",
        fname, addr, fstart, size);
}
...
--
```

FILES

[verse]
--
event-parse.h
 Header
 file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)
================

NAME
----
tep_filter_alloc, tep_filter_free, tep_filter_reset, tep_filter_make_string,
tep_filter_copy, tep_filter_compare, tep_filter_match, tep_event_filtered,
tep_filter_remove_event, tep_filter_strerror, tep_filter_add_filter_str -
Event filter related APIs.

SYNOPSIS

[verse]

--

#include <event-parse.h>

struct tep_event_filter pass:[*]*tep_filter_alloc*(struct tep_handle pass:[*]_tep_);
void *tep_filter_free*(struct tep_event_filter pass:[*]_filter_);
void *tep_filter_reset*(struct tep_event_filter pass:[*]_filter_);
enum tep_errno *tep_filter_add_filter_str*(struct tep_event_filter pass:[*]_filter_, const char pass:[*]_filter_str_);
int *tep_event_filtered*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
int *tep_filter_remove_event*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
enum tep_errno *tep_filter_match*(struct tep_event_filter pass:[*]_filter_,
struct tep_record pass:[*]_record_);
int *tep_filter_copy*(struct tep_event_filter pass:[*]_dest_, struct tep_event_filter pass:[*]_source_);
int *tep_filter_compare*(struct tep_event_filter pass:[*]_filter1_, struct tep_event_filter pass:[*]_filter2_);
char pass:[*]*tep_filter_make_string*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
int *tep_filter_strerror*(struct tep_event_filter pass:[*]_filter_, enum tep_errno _err_, char pass:[*]buf, size_t _buflen_);

--

DESCRIPTION

Filters can be attached to traced events. They can be used to filter out various events when outputting them. Each event can be filtered based on its parameters, described in the event's format file. This set of functions can be used to create, delete, modify and attach event filters.

The *tep_filter_alloc()* function creates a new event filter. The _tep_ argument is the trace event parser context.

The *tep_filter_free()* function frees an event filter and all resources that it had
used.

The *tep_filter_reset()* function removes all rules from an event filter and resets it.

The *tep_filter_add_filter_str()* function adds a new rule to the _filter_. The _filter_str_ argument is the filter string, that contains the rule.

The *tep_event_filtered()* function checks if the event with _event_id_ has _filter_.

The *tep_filter_remove_event()* function removes a _filter_ for an event with _event_id_.

The *tep_filter_match()* function tests if a _record_ matches given _filter_.

The *tep_filter_copy()* function copies a _source_ filter into a _dest_ filter.

The *tep_filter_compare()* function compares two filers - _filter1_ and _filter2_.

The *tep_filter_make_string()* function constructs a string, displaying
the _filter_ contents for given _event_id_.

The *tep_filter_strerror()* function copies the _filter_ error buffer into the
given _buf_ with the size _buflen_. If the error buffer is empty, in the _buf_
is copied a string, describing the error _err_.

RETURN
VALUE

The *tep_filter_alloc()* function returns a pointer to the newly created event
filter, or NULL in case of an error.

The *tep_filter_add_filter_str()* function returns 0 if the rule was
successfully added or a negative error code. Use *tep_filter_strerror()* to see
actual error message in case of an error.

The *tep_event_filtered()* function returns 1 if the filter is found for given
event, or 0 otherwise.

The *tep_filter_remove_event()* function returns 1 if the vent was removed, or
0 if the event was not found.

The *tep_filter_match()* function returns _tep_errno_, according to the result:
[verse]
--
_pass:[TEP_ERRNO__FILTER_MATCH]_ - filter found for event, the record matches.
_pass:[TEP_ERRNO__FILTER_MISS]_ - filter found for event, the record does not match.
_pass:[TEP_ERRNO__FILTER_NOT_FOUND]_ - no filter found for record's event.
_pass:[TEP_ERRNO__NO_FILTER]_ - no rules in the filter.
--
or any other _tep_errno_, if an error occurred during the test.

The
tep_filter_copy() function returns 0 on success or -1 if not all rules
were copied.

The *tep_filter_compare()* function returns 1 if the two filters hold the same
content, or 0 if they do not.

The *tep_filter_make_string()* function returns a string, which must be freed
with free(), or NULL in case of an error.

The *tep_filter_strerror()* function returns 0 if message was filled
successfully, or -1 in case of an error.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
char errstr[200];
int ret;

struct tep_event_filter *filter = tep_filter_alloc(tep);
struct tep_event_filter *filter1 = tep_filter_alloc(tep);
ret = tep_filter_add_filter_str(filter, "sched/sched_wakeup:target_cpu==1");
if(ret < 0) {
 tep_filter_strerror(filter, ret, errstr, sizeof(errstr));
 /* Failed to add a new rule to the filter, the error string is in errstr */
}
if (tep_filter_copy(filter1, filter) != 0) {
 /* Failed to copy filter in filter1 */
}
...
if
 (tep_filter_compare(filter, filter1) != 1) {
 /* Both filters are different */
}
...
void process_record(struct tep_handle *tep, struct tep_record *record)
{
 struct tep_event *event;
 char *fstring;

 event = tep_find_event_by_record(tep, record);

 if (tep_event_filtered(filter, event->id) == 1) {
  /* The event has filter */
  fstring = tep_filter_make_string(filter, event->id);
  if (fstring != NULL) {
   /* The filter for the event is in fstring */
   free(fstring);
  }
 }

 switch (tep_filter_match(filter, record)) {
```

```
 case TEP_ERRNO__FILTER_MATCH:
  /* The filter matches the record */
  break;
 case TEP_ERRNO__FILTER_MISS:
  /* The filter does not match the record */
  break;
 case TEP_ERRNO__FILTER_NOT_FOUND:
  /* No filter found for record's event */
  break;
 case TEP_ERRNO__NO_FILTER:
  /* There are no rules in the filter */
  break
 default:
  /* An error occurred during the test */
  break;
 }

 if (tep_filter_remove_event(filter, event->id) == 1) {
  /* The event was removed
 from the filter */
 }
}

...
tep_filter_reset(filter);
...
tep_filter_free(filter);
tep_filter_free(filter1);
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
```

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Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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/*
* Copyright (C) 2009, 2010 Red Hat Inc, Steven Rostedt <srostedt@redhat.com>
*
*
* The parts for function graph printing was taken and modified from the
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*   - Copyright (C) 2009 Frederic Weisbecker,
* Frederic Weisbecker gave his permission to relicense the code to
* the Lesser General Public License.
*/

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libtraceevent(3)
==========

NAME
---
tep_event_common_fields, tep_event_fields - Get a list of fields for an event.

SYNOPSIS

[verse]
--

#include <event-parse.h>

struct tep_format_field pass:[*]pass:[*]*tep_event_common_fields*(struct tep_event pass:[*]_event_);
struct tep_format_field pass:[*]pass:[*]*tep_event_fields*(struct tep_event pass:[*]_event_);
--

DESCRIPTION

The *tep_event_common_fields()* function returns an array of pointers to common
fields for the _event_. The array is allocated in the function and must be freed
by free(). The last element of the array is NULL.

The *tep_event_fields()* function returns an array of pointers to event specific
fields for the _event_. The array is allocated in the function and must be freed
by free(). The last element of the array is NULL.

RETURN VALUE

Both *tep_event_common_fields()* and *tep_event_fields()* functions return
an
 array of pointers to tep_format_field structures in case of success, or
NULL in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
int i;
struct tep_format_field **fields;
struct tep_event *event = tep_find_event_by_name(tep, "kvm", "kvm_exit");
if (event != NULL) {
 fields = tep_event_common_fields(event);
 if (fields != NULL) {
  i = 0;
  while (fields[i]) {
   /*
    walk through the list of the common fields
    of the kvm_exit event
   */
   i++;
  }
  free(fields);
 }
 fields = tep_event_fields(event);

```
 if (fields != NULL) {
  i = 0;
  while (fields[i]) {
   /*
     walk through the list of the event specific
     fields of the kvm_exit event
   */
   i++;
  }
  free(fields);
 }
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3),
 *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS
--------------
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RESOURCES
---------
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/
```

Found in path(s):
* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/Documentation/libtraceevent-fields.txt
No license file was found, but licenses were detected in source scan.

libtraceevent(3)
==========

NAME
----
tep_print_printk, tep_print_funcs, tep_set_test_filters, tep_plugin_print_options - Print libtraceevent internal information.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

void *tep_print_printk*(struct tep_handle pass:[*]tep);
void *tep_print_funcs*(struct tep_handle pass:[*]tep);
void *tep_set_test_filters*(struct tep_handle pass:[*]tep, int test_filters);
void *tep_plugin_print_options*(struct trace_seq pass:[*]s);
--

DESCRIPTION

The *tep_print_printk()* function prints the printk string formats that were stored for this tracing session. The _tep_ argument is trace event parser context.

The *tep_print_funcs()* function prints the stored function name to address mapping for this tracing session. The _tep_ argument is trace event parser context.

The *tep_set_test_filters()* function sets a flag to test a filter string. If this flag is set, when *tep_filter_add_filter_str()* API as called, it will print the filter string instead of adding it. The _tep_ argument is trace event parser context. The _test_filters_ argument is the test flag that will be set.

The *tep_plugin_print_options()* function writes a list of the registered plugin options into _s_.

EXAMPLE

[source,c]
--

```
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
 tep_print_printk(tep);
...
 tep_print_funcs(tep);
...
struct tep_event_filter *filter = tep_filter_alloc(tep);
 tep_set_test_filters(tep, 1);
 tep_filter_add_filter_str(filter, "sched/sched_wakeup:target_cpu==1");
 tep_set_test_filters(tep, 0);
 tep_filter_free(filter);
...
struct trace_seq seq;
trace_seq_init(&seq);

 tep_plugin_print_options(&s);
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses
 the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS
--------------
Report bugs to  <linux-trace-devel@vger.kernel.org>
```

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RESOURCES
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libtraceevent(3)
==========

NAME
---
trace_seq_init, trace_seq_destroy, trace_seq_reset, trace_seq_terminate,
trace_seq_putc, trace_seq_puts, trace_seq_printf, trace_seq_vprintf,
trace_seq_do_fprintf, trace_seq_do_printf -
Initialize / destroy a trace sequence.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

void *trace_seq_init*(struct trace_seq pass:[*]_s_);
void *trace_seq_destroy*(struct trace_seq pass:[*]_s_);
void *trace_seq_reset*(struct trace_seq pass:[*]_s_);
void *trace_seq_terminate*(struct trace_seq pass:[*]_s_);
int *trace_seq_putc*(struct trace_seq pass:[*]_s_, unsigned char _c_);
int *trace_seq_puts*(struct trace_seq pass:[*]_s_, const char pass:[*]_str_);
int *trace_seq_printf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, _..._);
int *trace_seq_vprintf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, va_list _args_);
int *trace_seq_do_printf*(struct
 trace_seq pass:[*]_s_);
int *trace_seq_do_fprintf*(struct trace_seq pass:[*]_s_, FILE pass:[*]_fp_);
--

DESCRIPTION

Trace sequences are used to allow a function to call several other functions
to create a string of data to use.

The *trace_seq_init()* function initializes the trace sequence _s_.

The *trace_seq_destroy()* function destroys the trace sequence _s_ and frees all its resources that it had used.

The *trace_seq_reset()* function re-initializes the trace sequence _s_. All characters already written in _s_ will be deleted.

The *trace_seq_terminate()* function terminates the trace sequence _s_. It puts the null character pass:['\0'] at the end of the buffer.

The *trace_seq_putc()* function puts a single character _c_ in the trace sequence _s_.

The *trace_seq_puts()* function puts a NULL terminated string _str_ in the trace sequence _s_.

The *trace_seq_printf()* function puts a formated string _fmt _with variable arguments _..._ in the trace sequence
_s_.

The *trace_seq_vprintf()* function puts a formated string _fmt _with list of arguments _args_ in the trace sequence _s_.

The *trace_seq_do_printf()* function prints the buffer of trace sequence _s_ to the standard output stdout.

The *trace_seq_do_fprintf()* function prints the buffer of trace sequence _s_ to the given file _fp_.

RETURN VALUE

Both *trace_seq_putc()* and *trace_seq_puts()* functions return the number of characters put in the trace sequence, or 0 in case of an error

Both *trace_seq_printf()* and *trace_seq_vprintf()* functions return 0 if the trace oversizes the buffer's free space, the number of characters printed, or a negative value in case of an error.

Both *trace_seq_do_printf()* and *trace_seq_do_fprintf()* functions return the number of printed characters, or -1 in case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
#include <trace-seq.h>

```
...
struct trace_seq seq;
trace_seq_init(&seq);
...
void foo_seq_print(struct trace_seq
 *tseq, char *format, ...)
{
 va_list ap;
 va_start(ap, format);
 if (trace_seq_vprintf(tseq, format, ap) <= 0) {
  /* Failed to print in the trace sequence */
 }
 va_end(ap);
}

trace_seq_reset(&seq);

char *str = " MAN page example";
if (trace_seq_puts(&seq, str) != strlen(str)) {
 /* Failed to put str in the trace sequence */
}
if (trace_seq_putc(&seq, ':') != 1) {
 /* Failed to put ':' in the trace sequence */
}
if (trace_seq_printf(&seq, " trace sequence: %d", 1) <= 0) {
 /* Failed to print in the trace sequence */
}
foo_seq_print( &seq, "  %d\n", 2);

trace_seq_terminate(&seq);
...

if (trace_seq_do_printf(&seq) < 0 ) {
 /* Failed to print the sequence buffer to the standard output */
}
FILE *fp = fopen("trace.txt", "w");
if (trace_seq_do_fprintf(&seq, fp) < 0 ) [
 /* Failed to print the sequence buffer to the trace.txt file */
}

trace_seq_destroy(&seq);
...
--

FILES
-----
[verse]
--
```

event-parse.h
 Header file to include in order to have access to the library APIs.
trace-seq.h
 Header
 file to include in order to have access to trace sequences related APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

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RESOURCES
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libtraceevent(3)
================

NAME
----
tep_plugin_kvm_get_func, tep_plugin_kvm_put_func - Add function name for instruction pointer of kvm plugin

SYNOPSIS

[verse]
--

#include <event-parse.h>

const char pass:[*]*tep_plugin_kvm_get_func*(struct tep_event pass:[*]event,
struct tep_record pass:[*]record,
unsigned long long pass:[*]paddr);
void *tep_plugin_kvm_put_func*(const char pass:[*]func);
--

DESCRIPTION

The functions *tep_plugin_kvm_get_func()* and *tep_plugin_kvm_put_func()*
are not to be called by an application, but instead are to be defined by
an application.

Certain events (like kvm_exit and kvm_entry) have the instruction pointer
of where in the guest the context changed from guest to host. As the host
only knows the instruction pointer and does not have information about what
function in the guest that instruction pointer belongs to, it can only print
the address.

But
the application may have more information about the guest, and know where
the guest was when the exit occurred, and also even know the function name
of that address.

The KVM plugin for libtraceevent is called on these events, and then calls
tep_plugin_kvm_get_func() to see if that function can resolve the instruction
pointer address to a real function name. If the return is non NULL, it will
print the function in the output for that event.

These functions are currently defined as weak functions within the plugin, as
to not require them to be defined elsewhere. For an application to override
the weak function, it will need to define the function in a file that gets
compiled with *-rdynamic*. That will tell the dynamic linker to examine that
object file and use function names to resolve weak functions in other shared
objects (in this case the KVM plugin shared object).

If the application defines *tep_plugin_kvm_get_func()*, it must use the above
prototype. The _event_ will
hold the KVM event that has the instruction pointer
field. The _record_ will be the instance of that event. The application's function
does not need to use these parameters, but they may be useful for finding the
function name for the address. The _paddr_ is a pointer to a 64 bit value (where
only 32 bits may be used on 32 bit machines). This value is the instruction
pointer to look up. If the application knows the start address of the function
as well, it can set _paddr_ to that address, and the KVM plugin will also
append a "+offset" to the function name where the offset is the original
value in _paddr_ minus the value in _paddr_ when it is called. Finally,

the application should return the function name as a nul terminated string
if one is found.

If the returned string of *tep_plugin_kvm_get_func()* was allocated, the KVM plugin
will call *tep_plugin_kvm_put_func()* when it is through with it, passing the
value returned by *tep_plugin_kvm_get_func()* as _func_. This allows the application
to
free it if necessary.

RETURN VALUE

The *tep_plugin_kvm_get_func()* is not to be called by the application but instead
is to be defined by the application. It should return a nul terminated string representing
the function for the given instruction pointer passed to it by reference in _paddr_. It
can then optionally update the _paddr_ to a value that holds the start of the function.
The string returned may be freed by the *tep_plugin_kvm_put_func()* that the application
should define to clean up the string.

The below example needs to be compiled with the *-rdynamic* flag so that the dynamic
linker can resolve the *tep_plugin_kvm_get_func()* and *tep_plugin_kvm_put_func()* functions.

When run against a trace.dat file produced by *trace-cmd(1)* recording the kvm_exit and
kvm_entry events on a guest, and then the guest's /proc/kallsyms file is passed as the
second parameter, the output produced will look something like:

[source,c]
--
CPU 0/KVM-20407 83156.177626
[000] kvm_exit reason APIC_ACCESS rip 0xffffffffb0056ee2 exit native_apic_mem_write+0x2 info 10b0 0
CPU 0/KVM-20407 83156.177632 [000] kvm_entry vcpu 0 rip 0xffffffffb0056ee8 enter
native_apic_mem_write+0x8
--

But without those callbacks, it would look like:

[source,c]
--
CPU 0/KVM-20407 83156.177626 [000] kvm_exit reason APIC_ACCESS rip 0xffffffffb0056ee2 info 10b0 0
CPU 0/KVM-20407 83156.177632 [000] kvm_entry vcpu 0 rip 0xffffffffb0056ee8
--

EXAMPLE

[source,c]
--
#include <stdio.h>
#include <stdlib.h>
#include <event-parse.h>

```
#include <trace-cmd.h>
#include <sys/stat.h>

static struct tep_handle *tep;

const char *tep_plugin_kvm_get_func(struct tep_event *event, struct tep_record *record,
        unsigned long long *paddr)
{
 const char *func;
 char *event_func;
 char *ename;

 func = tep_find_function(tep, *paddr);
 if (!func)
  return NULL;

 if (strcmp(event->name, "kvm_exit") == 0)
  ename = "exit";
 else
  ename = "enter";

 /*
  * Normally, passing
 back func directly is sufficient and then
  * tep_plugin_kvm_put_func() would not be required. But this example
  * is showing how to handle allocation of the returned string.
  */
 event_func = malloc(strlen(ename) + strlen(func) + 2);
 if (!event_func)
  return NULL;
 sprintf(event_func, "%s %s", ename, func);

 *paddr = tep_find_function_address(tep, *paddr);

 return event_func;
}

void tep_plugin_kvm_put_func(const char *func)
{
 char *f = (char *)func;

 free(f);
}

static int show_event(struct tracecmd_input *handle, struct tep_event *event,
        struct tep_record *record, int cpu, void *data)
{
 static struct trace_seq seq;
```

```
 tep = data;

 if (!seq.buffer)
  trace_seq_init(&seq);

 trace_seq_reset(&seq);
 tep_print_event(tracecmd_get_tep(handle), &seq, record,
   "%s-%d\t%6.1000d [%03d] %s\t%s\n",
   TEP_PRINT_COMM, TEP_PRINT_PID,
   TEP_PRINT_TIME, TEP_PRINT_CPU,
   TEP_PRINT_NAME, TEP_PRINT_INFO);
 trace_seq_terminate(&seq);
 trace_seq_do_printf(&seq);
 return 0;
}

int main(int
 argc, char **argv)
{
 struct tracecmd_input *handle;
 struct tep_handle *guest_tep;
 struct stat st;
 FILE *fp;
 char *buf;

 if (argc < 3) {
  printf("usage: trace.dat guest_kallsyms_file\n");
  exit(-1);
 }

 handle = tracecmd_open(argv[1], 0);
 if (!handle) {
  perror(argv[1]);
  exit(-1);
 }

 /* Just for kallsyms parsing */
 guest_tep = tep_alloc();
 if (!guest_tep)
  exit(-1);

 if (stat(argv[2], &st) < 0) {
  perror(argv[2]);
  exit(-1);
 }

 buf = malloc(st.st_size + 1);
 if (!buf)
```

```
 exit(-1);

fp = fopen(argv[2], "r");
if (!fp) {
 perror(argv[2]);
 exit(-1);
}

if (fread(buf, st.st_size, 1, fp) < 0) {
 perror(argv[2]);
 exit(-1);
}

buf[st.st_size] = '\0';

if (tep_parse_kallsyms(guest_tep, buf) < 0) {
 printf("Failed to parse %s\n", argv[2]);
 exit(-1);
}
free(buf);

tracecmd_follow_event(handle, "kvm", "kvm_exit", show_event, guest_tep);
tracecmd_follow_event(handle, "kvm", "kvm_entry", show_event, guest_tep);

tracecmd_iterate_events(handle, NULL, 0,
NULL, NULL);

tep_free(guest_tep);
tracecmd_close(handle);
}
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

REPORTING BUGS
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```

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RESOURCES
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libtraceevent(3)
================

NAME
----
tep_is_bigendian, tep_is_local_bigendian, tep_set_local_bigendian - Get / set
the endianness of the local machine.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_endian* {
 TEP_LITTLE_ENDIAN = 0,
 TEP_BIG_ENDIAN
};

int *tep_is_bigendian*(void);
bool *tep_is_local_bigendian*(struct tep_handle pass:[*]_tep_);
void *tep_set_local_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);
--

DESCRIPTION

The *tep_is_bigendian()* gets the endianness of the machine, executing
the function.

The *tep_is_local_bigendian()* function gets the endianness of the local
machine, saved in the _tep_ handler. The _tep_ argument is the trace event
parser context. This API is a bit faster than *tep_is_bigendian()*, as it

returns cached endianness of the local machine instead of checking it each time.

The *tep_set_local_bigendian()* function sets
 the endianness of the local
machine in the _tep_ handler. The _tep_ argument is trace event parser context.
The _endian_ argument is the endianness:
[verse]
--
 _TEP_LITTLE_ENDIAN_ - the machine is little endian,
 _TEP_BIG_ENDIAN_ - the machine is big endian.
--

RETURN VALUE

The *tep_is_bigendian()* function returns non zero if the endianness of the
machine, executing the code, is big endian and zero otherwise.

The *tep_is_local_bigendian()* function returns true, if the endianness of the
local machine, saved in the _tep_ handler, is big endian, or false otherwise.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
 if (tep_is_bigendian())
  tep_set_local_bigendian(tep, TEP_BIG_ENDIAN);
 else
  tep_set_local_bigendian(tep, TEP_LITTLE_ENDIAN);
...
 if (tep_is_local_bigendian(tep))
  printf("This machine you are running on is bigendian\n");
 else
  printf("This machine you are running on is little endian\n");

--

FILES

[verse]
--
event-parse.h
 Header
 file to include in order to have access to the library APIs.
-ltraceevent

Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

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RESOURCES
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https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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

libtraceevent(3)
================

NAME
----
tep_get_header_page_size, tep_get_header_timestamp_size, tep_is_old_format -
Get the data stored in the header page, in kernel context.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_get_header_page_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_header_timestamp_size*(struct tep_handle pass:[*]_tep_);
bool *tep_is_old_format*(struct tep_handle pass:[*]_tep_);

--
DESCRIPTION

These functions retrieve information from kernel context, stored in tracefs events/header_page. Old kernels do not have header page info, so default values from user space context are used.

The *tep_get_header_page_size()* function returns the size of a long integer, in kernel context. The _tep_ argument is trace event parser context.
This information is retrieved from tracefs events/header_page, "commit" field.

The *tep_get_header_timestamp_size()* function returns
the size of timestamps,
in kernel context. The _tep_ argument is trace event parser context. This information is retrieved from tracefs events/header_page, "timestamp" field.

The *tep_is_old_format()* function returns true if the kernel predates the addition of events/header_page, otherwise it returns false.

RETURN VALUE

The *tep_get_header_page_size()* function returns the size of a long integer, in bytes.

The *tep_get_header_timestamp_size()* function returns the size of timestamps, in bytes.

The *tep_is_old_format()* function returns true, if an old kernel is used to generate the tracing data, which has no event/header_page. If the kernel is new, or _tep_ is NULL, false is returned.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
 int longsize;
 int timesize;
 bool old;

 longsize = tep_get_header_page_size(tep);
 timesize = tep_get_header_timestamp_size(tep);
 old = tep_is_old_format(tep);

 printf ("%s kernel

```
 is used to generate the tracing data.\n",
  old?"Old":"New");
 printf("The size of a long integer is %d bytes.\n", longsize);
 printf("The timestamps size is %d bytes.\n", timesize);
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
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* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-
1.8.2/Documentation/libtraceevent-header_page.txt
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libtraceevent(3)
================
```

NAME
----
kbuffer_timestamp, kbuffer_subbuf_timestamp -
Functions that read various data of a kbuffer descriptor

SYNOPSIS

[verse]
--
#include <kbuffer.h>

unsigned long long *kbuffer_timestamp*(struct kbuffer pass:[*]_kbuf_);
unsigned long long *kbuffer_subbuf_timestamp*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuf_);
--

DESCRIPTION

The function *kbuffer_timestamp()* returns the timestamp of the current event of _kbuf_.

The function *kbuffer_subbuf_timestamp()* returns the timestamp for the sub-buffer
that was loaded in _kbuf_. This usually is (but not guaranteed to be) the timestamp
of the first event on the sub-buffer.

The function *kbuffer_start_of_data()* returns the offset of where the delta

RETURN VALUE
----
kbuffer_read_event() returns the event that the _kbuf_ descriptor is currently at,
or NULL if the last event was passed (by *kbuffer_next_event()*).

kbuffer_next_event()
 returns the next event after the current event or NULL if there
are no more events.

kbuffer_read_at_offset() returns the event at a given _offset_ from the start of
the sub-buffer stored in _kbuf_, or NULL if there exists no event. Note, _offset_
only needs to be an offset that lands on the record, or is at the start of it. It does
not need to be exactly at the beginning of the record.

kbuffer_missed_events() returns 0 if there were no missed events before loaded sub-buffer.
Returns -1 if there were an unknown number of missed events, or if the number of missed events
is known, that number will be returned.

kbuffer_event_size() returns the size of the data payload of the current event of _kbuf_.

kbuffer_curr_size() returns the size of the entire record of the current event of _kbuf_.
This includes the size of the meta data for that record.

kbuf_curr_offset() returns the offset of the current record from the beginning of the
kbuf
sub-buffer.

kbuf_curr_index() returns the index of the current record from the beginning of the _kbuf_
data section.

EXAMPLE

[source,c]
--
```
#include <stdio.h>
#include <stdlib.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/stat.h>

#include <kbuffer.h>

int main (int argc, char **argv)
{
 unsigned long long ts;
 struct kbuffer *kbuf;
 struct stat st;
 char *buf;
 void *event;
 int save_offset = -1;
 int record_size;
 int offset;
 int index;
 int size;
 int ret;
 int fd;
 int i = 0;

 if (argc < 2) {
  printf("usage: %s raw-subbuffer-page\n", argv[0]);
  printf(" Try: dd count=1 bs=4096 if=/sys/kernel/tracing/per_cpu/cpu0/trace_pipe_raw of=/tmp/file\n");
  exit(0);
 }

 if (stat(argv[1], &st) < 0) {
  perror("stat");
  exit(-1);
 }

 buf = malloc(st.st_size);
 if (!buf) {
```

```
 perror("Allocating buffer");
 exit(-1);
}

fd = open(argv[1], O_RDONLY);
if (fd < 0) {
 perror(argv[1]);
 exit(-1);
}

ret = read(fd, buf, st.st_size);
if (ret < 0) {
 perror("Reading
buffer");
 exit(-1);
}
close(fd);

kbuf = kbuffer_alloc(KBUFFER_ENDIAN_SAME_AS_HOST,
      KBUFFER_LSIZE_SAME_AS_HOST);
if (!kbuf) {
 perror("Creating kbuffer");
 exit(-1);
}
ret = kbuffer_load_subbuffer(kbuf, buf);
if (ret < 0) {
 perror("Loading sub bufer");
 exit(-1);
}

if (kbuffer_subbuffer_size(kbuf) > st.st_size) {
 fprintf(stderr, "kbuffer is bigger than raw size %d > %ld\n",
  kbuffer_subbuffer_size(kbuf), st.st_size);
 exit(-1);
}

ret = kbuffer_missed_events(kbuf);
if (ret) {
 if (ret > 0)
  printf("Missed %d events before this buffer\n", ret);
 else
  printf("Missed unknown number of events before this buffer\n");
}
do {
 event = kbuffer_read_event(kbuf, &ts);
 if (event) {
  record_size = kbuffer_curr_size(kbuf);
  offset = kbuffer_curr_offset(kbuf);
```

```
  index = kbuffer_curr_index(kbuf);
  size = kbuffer_event_size(kbuf);

  if (i == 20)
   save_offset = offset;
  printf(" event %3d ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n",

      i++, ts, record_size, size, index, offset);
  event = kbuffer_next_event(kbuf, NULL);
 }
} while (event);

if (!event)
 printf("Finished sub buffer\n");

if (save_offset > 0) {
 event = kbuffer_read_at_offset(kbuf, save_offset, &ts);
 if (!event) {
  fprintf(stderr, "Funny, can't find event 20 at offset %d\n", save_offset);
  exit(-1);
 }
 record_size = kbuffer_curr_size(kbuf);
 offset = kbuffer_curr_offset(kbuf);
 index = kbuffer_curr_index(kbuf);
 size = kbuffer_event_size(kbuf);

 printf("\n saved event 20 ts:%lld\trecord_size:%d size:%d\tindex:%d offset:%d\n\n",
        ts, record_size, size, index, offset);
}
kbuffer_free(kbuf);

return 0;
}
```

--

FILES

[verse]

--

event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.

--

SEE ALSO

---

libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>,
 author of *libtraceevent*.
--
REPORTING BUGS

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libtraceevent(3)
================

NAME
----
tep_get_page_size, tep_set_page_size, tep_get_sub_buffer_data_size, tep_get_sub_buffer_size - Get / set the size of a memory page on
the machine, where the trace is generated

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_get_page_size*(struct tep_handle pass:[*]_tep_);
void *tep_set_page_size*(struct tep_handle pass:[*]_tep_, int _page_size_);
int *tep_get_sub_buffer_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_sub_buffer_data_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_sub_buffer_commit_offset*(struct tep_handle pass:[*]_tep_);
--

DESCRIPTION

The *tep_get_page_size()* function returns the size of a memory page on
the machine, where the trace is generated. The _tep_ argument is trace
event parser context.

The *tep_set_page_size()* function stores in the _tep_ context the size of a
memory page on the machine, where the trace
is generated.
The _tep_ argument is trace event parser context.
The _page_size_ argument is the size of a memory page, in bytes.

The *tep_get_sub_buffer_size()* returns the size of each "sub buffer" of the
ring buffer. The Linux kernel ring buffer is broken up into sections called
sub buffers. This returns the size of those buffers.

The *tep_get_sub_buffer_data_size()* returns the size of just the data portion
of the sub buffers.

The *tep_get_sub_buffer_commit_offset()* returns the offset on the sub buffer
that holds the committed portion of data. This number contains the index from
the data portion of the sub buffer that is the end of the last element on the
sub buffer.

RETURN VALUE

The *tep_get_page_size()* function returns size of the memory page, in bytes.

The *tep_get_sub_buffer_size()* function returns the number of bytes each sub
buffer is made up of.

The *tep_get_sub_buffer_commit_offset()* function returns the location on the
sub buffer that contains the
index of the last element.

EXAMPLE

[source,c]
--
#include <unistd.h>
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
int page_size = getpagesize();

tep_set_page_size(tep, page_size);

printf("The page size for this machine is %d\n", tep_get_page_size(tep));

--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
================

NAME
----
tep_is_file_bigendian, tep_set_file_bigendian - Get / set the endianness of the
raw data being accessed by the tep handler.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_endian* {
 TEP_LITTLE_ENDIAN = 0,
 TEP_BIG_ENDIAN
};

bool *tep_is_file_bigendian*(struct tep_handle pass:[*]_tep_);
void *tep_set_file_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);

--
DESCRIPTION

The *tep_is_file_bigendian()* function gets the endianness of the raw data,
being accessed by the tep handler. The _tep_ argument is trace event parser
context.

The *tep_set_file_bigendian()* function sets the endianness of raw data being
accessed by the tep handler. The _tep_ argument is trace event parser context.
[verse]
--
The _endian_ argument is the endianness:
 _TEP_LITTLE_ENDIAN_ - the raw data is in little endian format,
 _TEP_BIG_ENDIAN_ - the
 raw data is in big endian format.
--
RETURN VALUE

The *tep_is_file_bigendian()* function returns true if the data is in bigendian
format, false otherwise.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
 tep_set_file_bigendian(tep, TEP_LITTLE_ENDIAN);
...
 if (tep_is_file_bigendian(tep)) {
  /* The raw data is in big endian */
 } else {

```
 /* The raw data is in little endian */
}
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
--
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libtraceevent(3)
================

NAME
----
```

tep_get_any_field_val, tep_get_common_field_val, tep_get_field_val,
tep_get_field_raw - Get value of a field.

SYNOPSIS

[verse]
--
#include <event-parse.h>
#include <trace-seq.h>

int *tep_get_any_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char
pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_get_common_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char
pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
int *tep_get_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_,
struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
void pass:[*]*tep_get_field_raw*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_,
const char pass:[*]_name_, struct tep_record pass:[*]_record_, int pass:[*]_len_, int _err_);
--

DESCRIPTION

These functions can be used to find a field and retrieve its value.

The *tep_get_any_field_val()* function searches in the _record_ for a field
with _name_, part of the _event_. If the field is found, its value is stored in
val. If there is an error and _err_ is not zero, then an error string is
written into _s_.

The *tep_get_common_field_val()* function does the same as
tep_get_any_field_val(), but searches only in the common fields. This works
for any event as all events include the common fields.

The *tep_get_field_val()* function does the same as *tep_get_any_field_val()*,
but searches only in the event specific fields.

The *tep_get_field_raw()* function searches in the _record_ for a field with
name, part of the _event_. If the field is found, a pointer to where the field
exists in the record's raw data is returned. The size of the data is stored
in
len. If there is an error and _err_ is not zero, then an error string is
written into _s_.

RETURN VALUE

The *tep_get_any_field_val()*, *tep_get_common_field_val()* and
tep_get_field_val() functions return 0 on success, or -1 in case of an error.

The *tep_get_field_raw()* function returns a pointer to field's raw data, and
places the length of this data in _len_. In case of an error NULL is returned.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
#include <trace-seq.h>
...
struct tep_handle *tep = tep_alloc();
...
struct tep_event *event = tep_find_event_by_name(tep, "kvm", "kvm_exit");
...
void process_record(struct tep_record *record)
{
 int len;
 char *comm;
 struct tep_event *event;
 unsigned long long val;

 event = tep_find_event_by_record(tep, record);
 if (event != NULL) {
  if (tep_get_common_field_val(NULL, event, "common_type",
         record, &val, 0) == 0) {
   /* Got the value of common type field */
  }
  if (tep_get_field_val(NULL, event,
 "pid", record, &val, 0) == 0) {
   /* Got the value of pid specific field */
  }
  comm = tep_get_field_raw(NULL, event, "comm", record, &len, 0);
  if (comm != NULL) {
   /* Got a pointer to the comm event specific field */
  }
 }
}
```
--

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
trace-seq.h
 Header file to include in order to have access to trace sequences
 related APIs. Trace sequences are used to allow a function to call

several other functions to create a string of data to use.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)
================

NAME
----
tep_read_number_field - Reads a number from raw data.

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_read_number_field*(struct tep_format_field pass:[*]_field_, const void pass:[*]_data_, unsigned long long

pass:[*]_value_);
--

DESCRIPTION

The *tep_read_number_field()* function reads the value of the _field_ from the
raw _data_ and stores it in the _value_. The function sets the _value_ according
to the endianness of the raw data and the current machine and stores it in
value.

RETURN VALUE

The *tep_read_number_field()* function retunrs 0 in case of success, or -1 in
case of an error.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
struct tep_event *event = tep_find_event_by_name(tep, "timer", "hrtimer_start");
...
void process_record(struct tep_record *record)
{
 unsigned
 long long pid;
 struct tep_format_field *field_pid = tep_find_common_field(event, "common_pid");

 if (tep_read_number_field(field_pid, record->data, &pid) != 0) {
  /* Failed to get "common_pid" value */
 }
}
...
--
FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO

---
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)
==========

NAME
---
tep_set_function_resolver, tep_reset_function_resolver, tep_register_function, tep_register_print_string, tep_get_function_count - function related tep APIs

SYNOPSIS

[verse]
--
#include <event-parse.h>

typedef char pass:[*](*tep_func_resolver_t*)(void pass:[*]_priv_, unsigned long long pass:[*]_addrp_, char pass:[**]_modp_);
int *tep_set_function_resolver*(struct tep_handle pass:[*]_tep_, tep_func_resolver_t pass:[*]_func_, void pass:[*]_priv_);
void *tep_reset_function_resolver*(struct tep_handle pass:[*]_tep_);
int *tep_register_function*(struct tep_handle pass:[*]_tep_, char pass:[*]_name_, unsigned long long _addr_, char pass:[*]_mod_);

int *tep_register_print_string*(struct tep_handle pass:[*]_tep_, const char pass:[*]_fmt_, unsigned long long _addr_);
int *tep_get_function_count*(struct tep_handle *_tep_)
--

DESCRIPTION

Some tools may have already
a way to resolve the kernel functions. These APIs
allow them to keep using it instead of duplicating all the entries inside.

The _tep_func_resolver_t_ type is the prototype of the alternative kernel functions resolver. This function receives a pointer to its custom context (set with the *tep_set_function_resolver()* call) and the address of a kernel function, which has to be resolved. In case of success, it should return the name of the function and its module (if any) in _modp_.

The *tep_set_function_resolver()* function registers _func_ as an alternative kernel functions resolver. The _tep_ argument is trace event parser context. The _priv_ argument is a custom context of the _func_ function. The function resolver is used by the APIs *tep_find_function*(3), *tep_find_function_address*(3), and *tep_print_func_field()* to resolve a function address to a function name.

The *tep_reset_function_resolver()* function resets the kernel functions resolver to the default function.
The _tep_ argument is trace event parser
context.

These APIs can be used to find function name and start address, by given address. The given address does not have to be exact, it will select the function that would contain it.

The *tep_register_function()* function registers a function name mapped to an address and (optional) module. This mapping is used in case the function tracer or events have "%pS" parameter in its format string. It is common to pass in the kallsyms function names with their corresponding addresses with this function. The _tep_ argument is the trace event parser context. The _name_ is the name of the function, the string is copied internally. The _addr_ is the start address of the function. The _mod_ is the kernel module the function may be in (NULL for none).

The *tep_register_print_string()* function registers a string by the address it was stored in the kernel. Some strings internal to the kernel with static address are passed to certain events. The "%s" in
the event's format field
which has an address needs to know what string would be at that address. The

tep_register_print_string() supplies the parsing with the mapping between kernel addresses and those strings. The _tep_ argument is the trace event parser context. The _fmt_ is the string to register, it is copied internally.
The _addr_ is the address the string was located at.

tep_get_function_count() returns the number of registered functions in a tep handler.

RETURN VALUE

The *tep_set_function_resolver()* function returns 0 in case of success, or -1 in case of an error.

The *tep_register_function()* function returns 0 in case of success. In case of an error -1 is returned, and errno is set to the appropriate error number.

The *tep_register_print_string()* function returns 0 in case of success. In case of an error -1 is returned, and errno is set to the appropriate error number.

EXAMPLE

[source,c]
--
```
#include <event-parse.h>
...
struct tep_handle *tep =
 tep_alloc();
...
char *my_resolve_kernel_addr(void *context,
        unsigned long long *addrp, char **modp)
{
 struct db *function_database = context;
 struct symbol *sym = sql_lookup(function_database, *addrp);

 if (!sym)
  return NULL;

 *modp = sym->module_name;
 return sym->name;
}

void show_function( unsigned long long addr)
{
 unsigned long long fstart;
 const char *fname;

 if (tep_set_function_resolver(tep, my_resolve_kernel_addr,
         function_database) != 0) {
  /* failed to register my_resolve_kernel_addr */
```

```
 }

 /* These APIs use my_resolve_kernel_addr() to resolve the addr */
 fname = tep_find_function(tep, addr);
 fstart = tep_find_function_address(tep, addr);

 /*
    addr is in function named fname, starting at fstart address,
    at offset (addr - fstart)
 */

 tep_reset_function_resolver(tep);

}
...
 if (tep_register_function(tep, "kvm_exit",
    (unsigned long long) 0x12345678, "kvm") != 0) {
  /* Failed to register kvm_exit address mapping */
 }
...
 if (tep_register_print_string(tep,
 "print string",
    (unsigned long long) 0x87654321, NULL) != 0) {
  /* Failed to register "print string" address mapping */
 }
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
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* /opt/cola/permits/2187759333_1726668497.4716992/0/libtraceevent-1-8-2-tar-gz/libtraceevent-1.8.2/LICENSES/LGPL-2.1
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libtraceevent(3)
==========

NAME
----
libtraceevent - Linux kernel trace event library

SYNOPSIS

[verse]
--
#include <event-parse.h>

Management of tep handler data structure and access of its members:
struct tep_handle pass:[*]*tep_alloc*(void);
void *tep_free*(struct tep_handle pass:[*]_tep_);
void *tep_ref*(struct tep_handle pass:[*]_tep_);
void *tep_unref*(struct tep_handle pass:[*]_tep_);
int *tep_get_ref*(struct tep_handle pass:[*]_tep_);
void *tep_set_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
void *tep_clear_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flag_);
bool *tep_test_flag*(struct tep_handle pass:[*]_tep_, enum tep_flag _flags_);
int *tep_get_cpus*(struct tep_handle pass:[*]_tep_);

void *tep_set_cpus*(struct tep_handle pass:[*]_tep_, int _cpus_);
int *tep_get_long_size*(strucqt tep_handle pass:[*]_tep_);
void *tep_set_long_size*(struct tep_handle
pass:[*]_tep_, int _long_size_);
int *tep_get_page_size*(struct tep_handle pass:[*]_tep_);
void *tep_set_page_size*(struct tep_handle pass:[*]_tep_, int _page_size_);
int *tep_get_sub_buffer_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_sub_buffer_data_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_sub_buffer_commit_offset*(struct tep_handle pass:[*]_tep_);
int *tep_get_header_page_size*(struct tep_handle pass:[*]_tep_);
int *tep_get_header_timestamp_size*(struct tep_handle pass:[*]_tep_);
bool *tep_is_old_format*(struct tep_handle pass:[*]_tep_);
int *tep_strerror*(struct tep_handle pass:[*]_tep_, enum tep_errno _errnum_, char pass:[*]_buf_, size_t _buflen_);
struct kbuffer pass:[*]*tep_kbuffer*(struct tep_handle pass:[*]_tep_);

Register / unregister APIs:
int *tep_register_function*(struct tep_handle pass:[*]_tep_, char pass:[*]_name_, unsigned long long _addr_, char pass:[*]_mod_);
int *tep_register_event_handler*(struct tep_handle pass:[*]_tep_, int _id_,
const char pass:[*]_sys_name_, const char pass:[*]_event_name_, tep_event_handler_func _func_, void pass:[*]_context_);
int *tep_unregister_event_handler*(struct tep_handle pass:[*]tep, int id, const char pass:[*]sys_name, const char pass:[*]event_name, tep_event_handler_func func, void pass:[*]_context_);
int *tep_register_print_string*(struct tep_handle pass:[*]_tep_, const char pass:[*]_fmt_, unsigned long long _addr_);
int *tep_register_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, enum tep_func_arg_type _ret_type_, char pass:[*]_name_, _..._);
int *tep_unregister_print_function*(struct tep_handle pass:[*]_tep_, tep_func_handler _func_, char pass:[*]_name_);
int *tep_get_function_count*(struct tep_handle *_tep_);

Trace printk parsing:
void *tep_print_printk*(struct tep_handle pass:[*]tep);
void *tep_print_funcs*(struct tep_handle pass:[*]tep);
void *tep_set_test_filters*(struct tep_handle pass:[*]tep, int test_filters);
void *tep_plugin_print_options*(struct
trace_seq pass:[*]s);
int *tep_plugin_add_option*(const char pass:[*]_name_, const char pass:[*]_val_);

Meta data parsing:
int *tep_parse_saved_cmdlines*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
int *tep_parse_printk_formats*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
int *tep_parse_kallsyms*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);

Plugins management:
struct tep_plugin_list pass:[*]*tep_load_plugins*(struct tep_handle pass:[*]_tep_);
void *tep_unload_plugins*(struct tep_plugin_list pass:[*]_plugin_list_, struct tep_handle pass:[*]_tep_);
char pass:[*]pass:[*]*tep_plugin_list_options*(void);

```
 void *tep_plugin_free_options_list*(char pass:[*]pass:[*]_list_);
 int *tep_plugin_add_options*(const char pass:[*]_name_, struct tep_plugin_option pass:[*]_options_);
 void *tep_plugin_remove_options*(struct tep_plugin_option pass:[*]_options_);
 void *tep_print_plugins*(struct trace_seq pass:[*]_s_, const char pass:[*]_prefix_,
 const char pass:[*]_suffix_, const struct tep_plugin_list pass:[*]_list_);
 void *tep_load_plugins_hook*(struct tep_handle pass:[*]_tep_, const char pass:[*]_suffix_,
     void (pass:[*]_load_plugin_)(struct tep_handle pass:[*]tep,
          const char pass:[*]path,
          const char pass:[*]name,
          void pass:[*]data),
     void pass:[*]_data_);
 int *tep_add_plugin_path*(struct tep_handle pass:[*]tep, char pass:[*]path,
    enum tep_plugin_load_priority prio);

Event related APIs:
 struct tep_event pass:[*]*tep_get_event*(struct tep_handle pass:[*]_tep_, int _index_);
 struct tep_event pass:[*]*tep_get_first_event*(struct tep_handle pass:[*]_tep_);
 int *tep_get_events_count*(struct tep_handle pass:[*]_tep_);
 struct tep_event pass:[*]pass:[*]*tep_list_events*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type
_sort_type_);
 struct tep_event pass:[*]pass:[*]*tep_list_events_copy*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type
_sort_type_);
 void
 *tep_print_event*(struct tep_handle pass:[*]_tep_, struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_,
const char pass:[*]_fmt_, _..._);

Event finding:
 struct tep_event pass:[*]*tep_find_event*(struct tep_handle pass:[*]_tep_, int _id_);
 struct tep_event pass:[*]*tep_find_event_by_name*(struct tep_handle pass:[*]_tep_, const char pass:[*]_sys_, const
char pass:[*]_name_);
 struct tep_event pass:[*]*tep_find_event_by_record*(struct tep_handle pass:[*]_tep_, struct tep_record
pass:[*]_record_);
 bool *tep_record_is_event*(struct tep_record pass:[*]record, struct tep_event pass:[*]event);

Parsing of event files:
 int *tep_parse_header_page*(struct tep_handle pass:[*]_tep_, char pass:[*]_buf_, unsigned long _size_, int
_long_size_);
 enum tep_errno *tep_parse_event*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_, unsigned long _size_,
const char pass:[*]_sys_);
 enum tep_errno *tep_parse_format*(struct tep_handle pass:[*]_tep_, struct tep_event pass:[*]pass:[*]_eventp_,
 const char pass:[*]_buf_, unsigned long _size_, const char pass:[*]_sys_);

APIs related to fields from event's format files:
 struct tep_format_field pass:[*]pass:[*]*tep_event_common_fields*(struct tep_event pass:[*]_event_);
 struct tep_format_field pass:[*]pass:[*]*tep_event_fields*(struct tep_event pass:[*]_event_);
 void pass:[*]*tep_get_field_raw*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char
pass:[*]_name_, struct tep_record pass:[*]_record_, int pass:[*]_len_, int _err_);
 int *tep_get_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_,
```

struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
 int *tep_get_common_field_val*(struct trace_seq pass:[*]_s_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
 int *tep_get_any_field_val*(struct trace_seq pass:[*]_s_, struct
 tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, unsigned long long pass:[*]_val_, int _err_);
 int *tep_read_number_field*(struct tep_format_field pass:[*]_field_, const void pass:[*]_data_, unsigned long long pass:[*]_value_);

Event fields printing:
 void *tep_print_field_content*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int size, struct tep_format_field pass:[*]_field_);
 void *tep_print_fields*(struct trace_seq pass:[*]_s_, void pass:[*]_data_, int _size_, struct tep_event pass:[*]_event_);
 int *tep_print_num_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int _err_);
 int *tep_print_func_field*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, struct tep_event pass:[*]_event_, const char pass:[*]_name_, struct tep_record pass:[*]_record_, int _err_);
 void *tep_record_print_fields*(struct trace_seq pass:[*]_s_,
 struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event_);
 void *tep_record_print_selected_fields*(struct trace_seq pass:[*]_s_, struct tep_record pass:[*]_record_, struct tep_event pass:[*]_event_, int _select_mask_);

Event fields finding:
 struct tep_format_field pass:[*]*tep_find_common_field*(struct tep_event pass:[*]_event_, const char pass:[*]_name_);
 struct tep_format_field pass:[*]*tep_find_field*(struct tep_event_ormat pass:[*]_event_, const char pass:[*]_name_);
 struct tep_format_field pass:[*]*tep_find_any_field*(struct tep_event pass:[*]_event_, const char pass:[*]_name_);

Functions resolver:
 int *tep_set_function_resolver*(struct tep_handle pass:[*]_tep_, tep_func_resolver_t pass:[*]_func_, void pass:[*]_priv_);
 void *tep_reset_function_resolver*(struct tep_handle pass:[*]_tep_);
 const char pass:[*]*tep_find_function*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_);
 unsigned long long *tep_find_function_address*(struct tep_handle pass:[*]_tep_,
 unsigned long long _addr_);
 int *tep_find_function_info*(struct tep_handle pass:[*]_tep_, unsigned long long _addr_, const char pass:[**]_name_,
     unsigned long long pass:[*]_start_, unsigned long pass:[*]_size_);

Filter management:
 struct tep_event_filter pass:[*]*tep_filter_alloc*(struct tep_handle pass:[*]_tep_);
 enum tep_errno *tep_filter_add_filter_str*(struct tep_event_filter pass:[*]_filter_, const char pass:[*]_filter_str_);
 enum tep_errno *tep_filter_match*(struct tep_event_filter pass:[*]_filter_, struct tep_record pass:[*]_record_);
 int *tep_filter_strerror*(struct tep_event_filter pass:[*]_filter_, enum tep_errno _err_, char pass:[*]buf, size_t _buflen_);
 int *tep_event_filtered*(struct tep_event_filter pass:[*]_filter_, int _event_id_);

```
 void *tep_filter_reset*(struct tep_event_filter pass:[*]_filter_);
 void *tep_filter_free*(struct tep_event_filter pass:[*]_filter_);
 char pass:[*]*tep_filter_make_string*(struct tep_event_filter pass:[*]_filter_, int
 _event_id_);
 int *tep_filter_remove_event*(struct tep_event_filter pass:[*]_filter_, int _event_id_);
 int *tep_filter_copy*(struct tep_event_filter pass:[*]_dest_, struct tep_event_filter pass:[*]_source_);
 int *tep_filter_compare*(struct tep_event_filter pass:[*]_filter1_, struct tep_event_filter pass:[*]_filter2_);

Parsing various data from the records:
 int *tep_data_type*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
 int *tep_data_pid*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
 int *tep_data_preempt_count*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);
 int *tep_data_flags*(struct tep_handle pass:[*]_tep_, struct tep_record pass:[*]_rec_);

Command and task related APIs:
 const char pass:[*]*tep_data_comm_from_pid*(struct tep_handle pass:[*]_tep_, int _pid_);
 struct cmdline pass:[*]*tep_data_pid_from_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_,
struct cmdline pass:[*]_next_);
 int *tep_register_comm*(struct
 tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
 int *tep_override_comm*(struct tep_handle pass:[*]_tep_, const char pass:[*]_comm_, int _pid_);
 bool *tep_is_pid_registered*(struct tep_handle pass:[*]_tep_, int _pid_);
 int *tep_cmdline_pid*(struct tep_handle pass:[*]_tep_, struct cmdline pass:[*]_cmdline_);

Endian related APIs:
 int *tep_is_bigendian*(void);
 unsigned long long *tep_read_number*(struct tep_handle pass:[*]_tep_, const void pass:[*]_ptr_, int _size_);
 bool *tep_is_file_bigendian*(struct tep_handle pass:[*]_tep_);
 void *tep_set_file_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);
 bool *tep_is_local_bigendian*(struct tep_handle pass:[*]_tep_);
 void *tep_set_local_bigendian*(struct tep_handle pass:[*]_tep_, enum tep_endian _endian_);

Control library logs:
 int *tep_set_loglevel*(enum tep_loglevel _level_);

KVM plugin calllbacks: (Defined by the application and complied with -rdynamic)
 const char pass:[*]*tep_plugin_kvm_get_func*(struct
 tep_event pass:[*]event,
       struct tep_record pass:[*]record,
       unsigned long long pass:[*]paddr);
 void *tep_plugin_kvm_put_func*(const char pass:[*]func);

Trace sequences:
*#include <trace-seq.h>*
 void *trace_seq_init*(struct trace_seq pass:[*]_s_);
 void *trace_seq_reset*(struct trace_seq pass:[*]_s_);
 void *trace_seq_destroy*(struct trace_seq pass:[*]_s_);
 int *trace_seq_printf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, ...);
```

int *trace_seq_vprintf*(struct trace_seq pass:[*]_s_, const char pass:[*]_fmt_, va_list _args_);
int *trace_seq_puts*(struct trace_seq pass:[*]_s_, const char pass:[*]_str_);
int *trace_seq_putc*(struct trace_seq pass:[*]_s_, unsigned char _c_);
void *trace_seq_terminate*(struct trace_seq pass:[*]_s_);
int *trace_seq_do_fprintf*(struct trace_seq pass:[*]_s_, FILE pass:[*]_fp_);
int *trace_seq_do_printf*(struct trace_seq pass:[*]_s_);

kbuffer parsing:
#include <kbuffer.h>
struct kbuffer pass:[*]*kbuffer_alloc*(enum
kbuffer_long_size _size_, enum kbuffer_endian _endian_);
struct kbuffer pass:[*]*kbuffer_dup*(struct kbuffer pass:[*]_kbuf_);
void *kbuffer_free*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_load_subbuffer*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuffer_);
int *kbuffer_subbuffer_size*(struct kbuffer pass:[*]_kbuf);
void pass:[*]*kbuffer_subbuffer*(struct kbuffer pass:[*]_kbuf);
int *kbuffer_refresh*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_start_of_data*(struct kbuffer pass:[*]_kbuf_);
unsigned long long *kbuffer_timestamp*(struct kbuffer pass:[*]_kbuf_);
unsigned long long *kbuffer_subbuf_timestamp*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_subbuf_);
void pass:[*]*kbuffer_read_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]*kbuffer_next_event*(struct kbuffer pass:[*]_kbuf_, unsigned long long pass:[*]_ts_);
void pass:[*]*kbuffer_read_at_offset*(struct kbuffer pass:[*]_kbuf_, int _offset_, unsigned long
long pass:[*]_ts_);
int *kbuffer_missed_events*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_event_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_size*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_offset*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_curr_index*(struct kbuffer pass:[*]_kbuf_);
int *kbuffer_read_buffer*(struct kbuffer pass:[*]_kbuf_, void pass:[*]_buffer_, int _start_, int _len_);
--

DESCRIPTION

The libtraceevent(3) library provides APIs to access kernel tracepoint events,
located in the tracefs file system under the events directory.

ENVIRONMENT

[verse]
--
TRACEEVENT_PLUGIN_DIR
Additional plugin directory. All shared object files, located in this directory will be loaded as traceevent plugins.
--

FILES

[verse]

--
event-parse.h
 Header file to include in order to have access to the library APIs.
trace-seq.h
 Header file to include in order to have access to trace sequences related APIs.
 Trace sequences are used
 to allow a function to call several other functions
 to create a string of data to use.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
trace-cmd(1)

AUTHOR

[verse]
--
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Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
REPORTING BUGS

Report bugs to <linux-trace-devel@vger.kernel.org>

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----
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RESOURCES
----
https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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libtraceevent(3)
================

NAME
----
tep_parse_saved_cmdlines, tep_parse_printk_formats, tep_parse_kallsyms
- Parsing functions to load mappings

SYNOPSIS

[verse]
--
#include <event-parse.h>

int *tep_parse_saved_cmdlines*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
int *tep_parse_printk_formats*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
int *tep_parse_kallsyms*(struct tep_handle pass:[*]_tep_, const char pass:[*]_buf_);
--

DESCRIPTION
----
tep_parse_saved_cmdlines() is a helper function to parse content in the tracefs
file system of the "saved_cmdlines" file (stored in a string buffer passed in by _buf_)
and loads the mapping of the process IDs (pid) to the comm names in the
tep handler. The events store the pid and this is used to be able to show the
process names associated to those process ids. It parses the string _buf_ that
holds the content of saved_cmdlines
and ends with a nul character ('\0').

tep_parse_printk_formats() is a helper function to parse content in the tracefs
file system of the "printk_formats" file (stored in a string buffer passed in by _buf_)
and loads the mapping of addresses of strings that may be referenced by events.
Events only store the address of constant strings in the kernel, and the mapping
of their address to the string is exported to user space in the printk_formats
file. It parses the string _buf_ that holds the content of printk_formats and
ends with a nul character ('\0').

tep_parse_kallsyms() is a helper function to parse the Linux kernel /proc/kallsyms format
(stored in a string buffer passed in by _buf_) and load the functions into the
tep handler such that function IP addresses can be mapped to their name when
parsing events with %pS in the print format field. It parses the string _buf_ that
holds the content of /proc/kallsyms and ends with a nul character ('\0').

RETURN VALUE

The
tep_parse_saved_cmdlines() function returns 0 in case of success, or -1
in case of an error.

The *tep_parse_printk_formats*() function returns 0 in case of success, or -1
in case of an error.

The *tep_parse_kallsyms*() function returns 0 in case of success, or -1
in case of an error.

EXAMPLE

```
-------
[source,c]
--
...
#include <event-parse.h>
#include <tracefs.h>
#include <stdlib.h>

int load_cmdlines(struct tep_handle *tep)
{
	char *buf = NULL;
	int r;

	buf = tracefs_instance_file_read(NULL, "saved_cmdlines", NULL);
	if (!buf)
		return -1;
	r = tep_parse_saved_cmdlines(tep, buf);
	free(buf);
	return r;
}

int load_print_strings(struct tep_handle *tep)
{
	char *buf = NULL;
	int r;

	buf = tracefs_instance_file_read(NULL, "printk_formats", NULL);
	if (!buf)
		return -1;
	r = tep_parse_printk_formats(tep, buf);
	free(buf);
	return r;
}

int load_kallsyms(struct
 tep_handle *tep)
{
	char *line = NULL;
	char *buf = NULL;
	size_t sz = 0;
	FILE *fp;
	int len = 0;
	int r;

	fp = fopen("/proc/kallsyms", "r");
	while ((r = getline(&line, &sz, fp)) >= 0) {
		buf = realloc(buf, len + r + 1);
		memcpy(buf + len, line, r);
```

```
                len += r;
        }
        free(line);
        fclose(fp);
        if (!buf)
                return -1;
        buf[len] = 0;

        r = tep_parse_kallsyms(tep, buf);
        free(buf);
        return r;
}
...
--

FILES
-----
[verse]
--
*event-parse.h*
 Header file to include in order to have access to the library APIs.
*-ltraceevent*
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1), *tep_register_comm*(3), *tep_register_function*(3),
*tep_register_print_string*(3)

AUTHOR
------
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--
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*Tzvetomir
 Stoyanov* <tz.stoyanov@gmail.com>, coauthor of *libtraceevent*.
--
REPORTING BUGS
--------------
Report bugs to  <linux-trace-devel@vger.kernel.org>

LICENSE
-------
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RESOURCES
---------
```

https://git.kernel.org/pub/scm/libs/libtrace/libtraceevent.git/

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libtraceevent(3)
==========

NAME
----
tep_find_common_field, tep_find_field, tep_find_any_field -
Search for a field in an event.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_format_field pass:[*]*tep_find_common_field*(struct tep_event pass:[*]_event_, const char pass:[*]_name_);
struct tep_format_field pass:[*]*tep_find_field*(struct tep_event_ormat pass:[*]_event_, const char pass:[*]_name_);
struct tep_format_field pass:[*]*tep_find_any_field*(struct tep_event pass:[*]_event_, const char pass:[*]_name_);
--

DESCRIPTION

These functions search for a field with given name in an event. The field
returned can be used to find the field content from within a data record.

The *tep_find_common_field()* function searches for a common field with _name_
in the _event_.

The *tep_find_field()* function searches for an event specific field with
name in the _event_.

The *tep_find_any_field()*
function searches for any field with _name_ in the
event.

RETURN VALUE

The _tep_find_common_field(), *tep_find_field()* and _tep_find_any_field()_
functions return a pointer to the found field, or NULL in case there is no field
with the requested name.

EXAMPLE

```
-------
[source,c]
--
#include <event-parse.h>
...
void get_htimer_info(struct tep_handle *tep, struct tep_record *record)
{
 struct tep_format_field *field;
 struct tep_event *event;
 long long softexpires;
 int mode;
 int pid;

 event = tep_find_event_by_name(tep, "timer", "hrtimer_start");

 field = tep_find_common_field(event, "common_pid");
 if (field == NULL) {
  /* Cannot find "common_pid" field in the event */
 } else {
  /* Get pid from the data record */
  pid = tep_read_number(tep, record->data + field->offset,
        field->size);
 }

 field = tep_find_field(event, "softexpires");
 if (field == NULL) {
  /* Cannot find "softexpires" event specific field in the event */
 } else {
  /* Get
 softexpires parameter from the data record */
  softexpires = tep_read_number(tep, record->data + field->offset,
         field->size);
 }

 field = tep_find_any_field(event, "mode");
 if (field == NULL) {
  /* Cannot find "mode" field in the event */
 } else
 {
  /* Get mode parameter from the data record */
  mode = tep_read_number(tep, record->data + field->offset,
         field->size);
 }
}
...
--
```

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
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Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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libtraceevent(3)
================

NAME
----
tep_alloc, tep_free,tep_ref, tep_unref,tep_get_ref, tep_kbuffer - Create, destroy, manage references of trace event parser context.

SYNOPSIS

[verse]
--
#include <event-parse.h>

struct tep_handle pass:[*]*tep_alloc*(void);
void *tep_free*(struct tep_handle pass:[*]_tep_);
void *tep_ref*(struct tep_handle pass:[*]_tep_);
void *tep_unref*(struct tep_handle pass:[*]_tep_);
int *tep_get_ref*(struct tep_handle pass:[*]_tep_);
struct kbuffer pass:[*]*tep_kbuffer*(struct tep_handle pass:[*]_tep_);
--

DESCRIPTION

These are the main functions to create and destroy tep_handle - the main
structure, representing the trace event parser context. This context is used as
the input parameter of most library APIs.

The *tep_alloc()* function allocates and initializes the tep context.

The *tep_free()* function will decrement the reference of the _tep_ handler.
When
 there is no more references, then it will free the handler, as well
as clean up all its resources that it had used. The argument _tep_ is
the pointer to the trace event parser context.

The *tep_ref()* function adds a reference to the _tep_ handler.

The *tep_unref()* function removes a reference from the _tep_ handler. When
the last reference is removed, the _tep_ is destroyed, and all resources that
it had used are cleaned up.

The *tep_ref_get()* functions gets the current references of the _tep_ handler.

The *tep_kbuffer()* function allocates a kbuffer descriptor that can be used to
parse raw data that is represented by the _tep_ handle descriptor. It must be freed
with *kbuf_free(3)*.

RETURN VALUE
----
tep_alloc() returns a pointer to a newly created tep_handle structure.
NULL is returned in case there is not enough free memory to allocate it.

tep_ref_get() returns the current references of _tep_.
If _tep_ is NULL, 0 is returned.

tep_kbuffer() returns a kbuffer descriptor

that can parse the raw data that
represents the tep handle. Must be freed with *kbuf_free(3)*.

EXAMPLE

[source,c]
--
#include <event-parse.h>

...
struct tep_handle *tep = tep_alloc();
...
int ref = tep_get_ref(tep);
tep_ref(tep);
if ((ref+1) != tep_get_ref(tep)) {
 /* Something wrong happened, the counter is not incremented by 1 */
}
tep_unref(tep);
...
tep_free(tep);
...
--
FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
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libtraceevent(3)
==========

NAME
---
tep_list_events, tep_list_events_copy -
Get list of events, sorted by given criteria.

SYNOPSIS

[verse]
--
#include <event-parse.h>

enum *tep_event_sort_type* {
 _TEP_EVENT_SORT_ID_,
 _TEP_EVENT_SORT_NAME_,
 _TEP_EVENT_SORT_SYSTEM_,
};

struct tep_event pass:[*]pass:[*]*tep_list_events*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type _sort_type_);
struct tep_event pass:[*]pass:[*]*tep_list_events_copy*(struct tep_handle pass:[*]_tep_, enum tep_event_sort_type _sort_type_);
--

DESCRIPTION

The *tep_list_events()* function returns an array of pointers to the events,
sorted by the _sort_type_ criteria. The last element of the array is NULL.
The returned memory must not be freed, it is managed by the library.
The function is not thread safe. The _tep_ argument is trace event parser
context. The _sort_type_ argument is the required sort criteria:
[verse]
--

_TEP_EVENT_SORT_ID_ -
sort by the event ID.
_TEP_EVENT_SORT_NAME_ - sort by the event (name, system, id) triplet.
_TEP_EVENT_SORT_SYSTEM_ - sort by the event (system, name, id) triplet.
--

The *tep_list_events_copy()* is a thread safe version of _tep_list_events()_.
It has the same behavior, but the returned array is allocated internally and
must be freed by the caller. Note that the content of the array must not be
freed (see the EXAMPLE below).

RETURN VALUE

The *tep_list_events()* function returns an array of pointers to events.
In case of an error, NULL is returned. The returned array must not be freed,
it is managed by the library.

The *tep_list_events_copy()* function returns an array of pointers to events.
In case of an error, NULL is returned. The returned array must be freed by
the caller.

EXAMPLE

[source,c]
--
#include <event-parse.h>
...
struct tep_handle *tep = tep_alloc();
...
int i;
struct tep_event_format **events;

i=0;
events =
 tep_list_events(tep, TEP_EVENT_SORT_ID);
if (events == NULL) {
 /* Failed to get the events, sorted by ID */
} else {
 while(events[i]) {
  /* walk through the list of the events, sorted by ID */
  i++;
 }
}

i=0;
events = tep_list_events_copy(tep, TEP_EVENT_SORT_NAME);
if (events == NULL) {
 /* Failed to get the events, sorted by name */

```
} else {
 while(events[i]) {
  /* walk through the list of the events, sorted by name */
  i++;
 }
 free(events);
}

...
--
```

FILES

[verse]
--
event-parse.h
 Header file to include in order to have access to the library APIs.
-ltraceevent
 Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

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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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1.398 qemu 6.2.0

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd,
 "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___getcwd, "__getcwd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl,
 "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept4, "accept4", "%s(%d,%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bindat, "bindat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_enter, "cap_enter", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_get, "cap_fcntls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_limit, "cap_fcntls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_getmode, "cap_getmode", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_get, "cap_ioctls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_limit,
 "cap_ioctls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_rights_limit, "cap_rights_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_chflagsat, "chflagsat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connectat, "connectat", "%s(%d,%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_cpuset_getdomain, "cpuset_getdomain", NULL, NULL,
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{ TARGET_FREEBSD_NR_cpuset_setdomain, "cpuset_setdomain", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{
 TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
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{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl",
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{ TARGET_FREEBSD_NR_fdatasync, "fdatasync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstat, "freebsd11_fhstat", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_freebsd11_fhstatfs, "freebsd11_fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstat, "freebsd11_fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatat,
 "freebsd11_fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatfs, "freebsd11_fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimens, "futimens", "%s(%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getdirentries, "freebsd11_getdirentries", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getrandom, "getrandom", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknodat, "mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknod, "freebsd11_mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl,
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{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_pipe2, "pipe2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_posix_fallocate,
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{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_max, "sched_get_priority_max", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_min, "sched_get_priority_min", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_stat, "freebsd11_stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_statfs, "freebsd11_statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink",
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{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_ktimer_delete, "timer_delete" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_settime, "timer_settime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_gettime, "timer_gettime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_getoverrun, "timer_getoverrun" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)",
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{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimensat, "utimensat", "%s(%d,%s,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait6, "wait6", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_posix_openpt, "posix_openpt", "%s(%d)", NULL,
NULL },
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References

1. http://www.gnu.org/licenses/license-list.html
TARGET_ARCH=x86_64
TARGET_BASE_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-64bit.xml
Index: debug.c
===
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{

```
   if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+         x86emu_dump_xregs();
+ } else {
+         x86emu_dump_regs();
+ }
   }
   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
      printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
      sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
   }
-   printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file:
 /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
   target += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+    if (cond) {
       M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+    }
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+   // perform the byte swap
```

```
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+
    /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\t");
+    switch (op2) {
+      case 0xc8:
+        DECODE_PRINTF("EAX\n");
+        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+        break;
+      case 0xc9:
+        DECODE_PRINTF("ECX\n");
+        M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+        break;
+      case 0xca:
+        DECODE_PRINTF("EDX\n");
+        M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+        break;
+      case 0xcb:
+        DECODE_PRINTF("EBX\n");
+        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+        break;
+      case 0xcc:
+        DECODE_PRINTF("ESP\n");
+        M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+        break;
+      case 0xcd:
+        DECODE_PRINTF("EBP\n");
+        M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+        break;
+      case 0xce:
+        DECODE_PRINTF("ESI\n");
+        M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+        break;
+      case 0xcf:
+        DECODE_PRINTF("EDI\n");
+        M.x86.R_EDI
 = x86emu_bswap(M.x86.R_EDI);
+        break;
```

```
+    }
+    TRACE_AND_STEP();
     DECODE_CLEAR_SEGOVR();
     END_OF_INSTR();
 }
@@ -1702,14 +1763,14 @@
 /*  0xc5 */ x86emuOp2_illegal_op,
 /*  0xc6 */ x86emuOp2_illegal_op,
 /*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

 /*  0xd0 */ x86emuOp2_illegal_op,
 /*  0xd1 */ x86emuOp2_illegal_op,
Index:
 ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
     imm = (s8)fetch_byte_imm();
     DECODE_PRINTF2("PUSH\t%d\n", imm);
     TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
     DECODE_CLEAR_SEGOVR();
     END_OF_INSTR();
```

```
}
@@ -1256,8 +1260,10 @@
   target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+    if (cond) {
       M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2526,6 +2534,8 @@
       store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2559,9 +2569,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
```

```
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
        }
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2598,16 +2612,21 @@

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
```

```
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
            val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+          else
+            M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+          if (M.x86.intr & INTR_HALTED)
+            break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2741,11 +2765,16 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /*
 move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+          else
+            M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
+          if (M.x86.intr & INTR_HALTED)
+            break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2783,9 +2812,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
```

```
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;

      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2795,6 +2826,8 @@
           store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
        }
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2817,11 +2850,16 @@
        inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
           M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+              M.x86.R_ECX -= 1;
+          else
+              M.x86.R_CX -= 1;
           M.x86.R_SI += inc;
+          if (M.x86.intr & INTR_HALTED)
+
              break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
```

```
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
           M.x86.R_AX = fetch_data_word(M.x86.R_SI);
        }
        M.x86.R_SI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
        inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /*
 REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
           val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
           cmp_byte(M.x86.R_AL, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
           M.x86.R_DI += inc;
           if (ACCESS_FLAG(F_ZF) == 0)
              break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_byte(M.x86.R_AL, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
```

```
+              M.x86.R_ECX -= 1;
+            else
+              M.x86.R_CX -= 1;
           M.x86.R_DI += inc;
           if (ACCESS_FLAG(F_ZF))
             break;          /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+            break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
   } else {
@@ -2951,8 +3003,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
       /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_long(M.x86.R_EAX,
 val);
@@ -2960,16 +3012,21 @@
             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word(M.x86.R_AX, (u16)val);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+          else
+            M.x86.R_CX -= 1;
           M.x86.R_DI += inc;
           if (ACCESS_FLAG(F_ZF) == 0)
             break;
+          if (M.x86.intr & INTR_HALTED)
+            break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPE;
   } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
       /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_long(M.x86.R_EAX,
```

```
 val);
@@ -2977,10 +3034,15 @@
               val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
               cmp_word(M.x86.R_AX, (u16)val);
             }
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+            else
+               M.x86.R_CX -= 1;
             M.x86.R_DI += inc;
             if (ACCESS_FLAG(F_ZF))
               break;        /* zero flag set means equal */
+            if (M.x86.intr & INTR_HALTED)
+               break;
         }
         M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
     } else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
  TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9 @@
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
  TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
 }
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
  TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
```

```
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
   START_OF_INSTR();
   DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
      M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4041,8 +4106,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4062,8 +4130,11 @@
```

```
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0)
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4085,8 +4156,10 @@
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (M.x86.R_CX == 0)
+   if (M.x86.R_CX == 0) {
       M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
   ip = (s16)fetch_word_imm();
   ip += (s16)M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs,
 M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
   TRACE_AND_STEP();
   M.x86.R_IP = (u16)ip;
   DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
   cs = fetch_word_imm();
   DECODE_PRINTF2("%04x:", cs);
   DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
   TRACE_AND_STEP();
   M.x86.R_IP = ip;
   M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
   offset = (s8)fetch_byte_imm();
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
   TRACE_AND_STEP();
```

```
   M.x86.R_IP = target;
   DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
   DECODE_PRINTF("REPNE\n");
   TRACE_AND_STEP();
   M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
   DECODE_PRINTF("REPE\n");
   TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
          break;
       case 4:         /* jmp word ptr ... */
          destval = fetch_data_word(destoffset);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
          TRACE_AND_STEP();
          M.x86.R_IP = destval;
          break;
       case 5:         /* jmp far ptr ... */
          destval = fetch_data_word(destoffset);
          destval2 = fetch_data_word(destoffset + 2);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
          TRACE_AND_STEP();
          M.x86.R_IP = destval;
          M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
```

```
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* in until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* in until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                     M.x86.R_ECX : M.x86.R_CX);
-
        while (count--) {
         single_in(size);
         M.x86.R_DI += inc;
         }
        M.x86.R_CX = 0;
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* out until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* out until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                     M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
         single_out(size);
         M.x86.R_SI += inc;
         }
        M.x86.R_CX = 0;
```

```
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
        }
        M.x86.mode
 &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);)
- return inb(addr);
+ return 0;
}

/****************************************************************************
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);)
- return inw(addr);
+ return 0;
}

/****************************************************************************
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
```

```
   printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}

/*****************************************************************************
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
 return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
 return;
}

@@ -295,7 +288,6 @@
 DB(if (DEBUG_IO_TRACE())
       printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
 return;
}

@@ -405,6 +397,6 @@

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7
 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
```

```
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()      (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()        0
# define DEBUG_TRACECALL()     0
# define DEBUG_TRACECALLREGS()  0
+# define DEBUG_TRACEJMP()
     0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()           0
# define DEBUG_MEM_TRACE()     0
# define DEBUG_IO_TRACE()      0
@@ -169,14 +171,20 @@
  x86emu_dump_regs();                             \
 if (DEBUG_TRACECALL())                           \
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                     \
+# define RETURN_TRACE(u,v,w,x,s)                 \
 if (DEBUG_TRACECALLREGS())       \
  x86emu_dump_regs();                             \
 if (DEBUG_TRACECALL())                           \
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                   \
+   if (DEBUG_TRACEJMPREGS()) \
+     x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+     printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
```

```
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
       SYSMODE_SEGOVR_GS     | \
      SYSMODE_SEGOVR_SS     | \
      SYSMODE_PREFIX_DATA    | \
-      SYSMODE_PREFIX_ADDR)
+      SYSMODE_PREFIX_ADDR    | \
+      SYSMODE_32BIT_REP)

#define  INTR_SYNCH          0x1
#define  INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
    */
   u32                   mode;
   volatile int              intr;   /* mask of pending interrupts */
- int                   debug;
+    volatile int                    debug;
#ifdef DEBUG
- int                   check;
+    int                     check;
   u16                   saved_ip;
   u16                   saved_cs;
   int                   enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
```

retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F 0x004000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F   0x010000
+#define DEBUG_TRACEJMP_F   0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F   (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef __cplusplus
}   /* End of "C" linkage for C++   */
#endif
-
#endif /* __X86EMU_X86EMU_H */
argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

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History

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John R. Hauser
2018 January 20

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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html
https://lists.01.org/pipermail/edk2-devel/2019-March/037500.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=1373

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Contributions.txt: TianoCore Contribution Agreement 1.1

==========
= Code Contributions =
==========

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in

this document.
4. Submit your code to the TianoCore project using the process
that the project documents on its web page. If the process is
not documented, then submit the code on development email list
for the project.
5. It is preferred that contributions are submitted using the same
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accepted.

Contributions using other licenses might be accepted, but further
review will be required.

==========
= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include
your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part

of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions
for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the
contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

==========
= TianoCore Contribution Agreement 1.1 =
==========

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(including, but not limited to, related patents and trademarks)
of which You are personally
aware and which are associated with
any part of Your Contributions.

== SECTION 4: Third Party Contributions ==
* Should You wish to submit work that is not Your original creation,
You may submit it to TianoCore site separately from any
Contribution, identifying the complete details of its source
and of any license or other restriction (including, but not
limited to, related patents, trademarks, and license agreements)
of which You are personally aware, and conspicuously marking the
work as "Submitted on behalf of a third-party: [named here]".

== SECTION 5: Miscellaneous ==
* Applicable Laws. Any claims arising under or relating to this
Agreement shall be governed by the internal substantive laws of
the State of Delaware or federal courts located in Delaware,
without regard to principles of conflict of laws.
* Language. This Agreement is in the English language only, which
language shall be controlling
in all respects, and all versions
of this Agreement in any other language shall be for accommodation
only and shall not be binding. All communications and notices made
or given pursuant to this Agreement, and all documentation and
support to be provided, unless otherwise noted, shall be in the
English language.

Contributions.txt: TianoCore Contribution Agreement 1.0

==========
= Code Contributions =
==========

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to
   use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
   and "Contributed-under"
message.
3. Your "Contributed-under" message explicitly states that the
   contribution is made under the terms of the specified
   contribution agreement. Your "Contributed-under" message
   must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.0
   The "TianoCore Contribution Agreement" is included below in
   this document.
4. Submit your code to the TianoCore project using the process
   that the project documents on its web page. If the process is
   not documented, then submit the code on development email list
   for the project.
5. It is preferred that contributions are submitted using the same
   copyright license as the base project. When that is not possible,
   then contributions using the following licenses can be accepted:
   * BSD (2-clause): http://opensource.org/licenses/BSD-2-Clause
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    * MIT: http://opensource.org/licenses/MIT
   * Python-2.0: http://opensource.org/licenses/Python-2.0
   * Zlib: http://opensource.org/licenses/Zlib

   Contributions of code put into the public domain can also be
   accepted.

   Contributions using other licenses might be accepted, but further
   review will be required.

```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================
```

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under:
TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change.
Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
  made under the terms of the contribtion agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

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Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:
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https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

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Contributions.txt: TianoCore Contribution Agreement 1.1

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

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message
explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process

that the project documents on its web page. If the process is
not documented, then submit the code on development email list
for the project.

5. It is preferred that contributions are submitted using the same
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then contributions using the following licenses can be accepted:
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review will be required.

==========
= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is
the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
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==========
= Code Contributions =
==========

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to

use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution
agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
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4. Submit your code to the TianoCore project using the process
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message
```

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or
attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
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John R. Hauser
2018 January 20

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```
project('bar', 'c', license: 'Apache-2.0')

executable('bar', 'bar.c')

license = meson.project_license()[0]
if license != 'Apache-2.0'
  error('The license should be Apache-2.0, but it is: ' + license)
endif
```

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   The End
bsd_user_ss.add(files(
 'os-sys.c',
))

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SOFTWARE.
if not have_bsd_user
  subdir_done()
endif

```
bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'syscall.c',
 'uaccess.c',
))

# Pull in the OS-specific build glue, if any
subdir(targetos)
TARGET_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
Valid-License-Identifier: BSD-2-Clause
SPDX-URL: https://spdx.org/licenses/BSD-2-Clause.html
Usage-Guide:
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John R. Hauser
2018 January 20

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1.401 python3-idna 3.3

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1.402 xfsprogs 5.13.0

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1.404 debianutils 5.7

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

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

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

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

 <xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
   <xsl:with-param name="text">
    <xsl:for-each select="db:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
   <xsl:with-param name="years" select="db:year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
```

```
  <xsl:value-of select="db:holder"/>
       <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of
 select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
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1.412 python-protobuf 3.9.2

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Metadata-Version: 1.2
Name: protobuf
Version: 3.9.2
Summary: Protocol Buffers
Home-page: https://developers.google.com/protocol-buffers/
Maintainer: protobuf@googlegroups.com
Maintainer-email: protobuf@googlegroups.com
License: 3-Clause BSD License
Download-URL: https://github.com/protocolbuffers/protobuf/releases
Description: Protocol Buffers are Google's data interchange format
Platform: UNKNOWN
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7

Found in path(s):
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*
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* /opt/cola/permits/2187759444_1726668447.6649573/0/protobuf-3-9-2-tar-gz/protobuf-3.9.2/setup.py

1.413 dpdk 22.11.0

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1.414 rrdtool 1.8.0

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Id

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Mike Slifcak <slif with bellsouth.net> many rrdtool-1.1.x fixes
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1.416 python3-certifi 2021.10.8

1.416.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.417 libidn 1.36

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1.418 vim 9.1.0114

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uganda.txt For Vim version 9.1. Last change: 2022 Mar 02

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below or visit the ICCF web site, available at these URLs:

https://iccf-holland.org/
https://www.vim.org/iccf/
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You can also sponsor the development of Vim. Vim sponsors can vote for
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==
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there
usually is enough food. But this district is suffering from AIDS more than
any other part of the world. Some say that it started there. Estimations are
that in the past 10 to 30% of the Ugandans
 are infected with HIV. Because
parents die, there are many orphans. In this district about 60,000 children
have lost one or both parents, out of a population of 350,000. Although AIDS
is now mostly under control, the problems are still continuing.

The children need a lot of help. The KCC is working hard to provide the needy
with food, medical care and education. Food and medical care to keep them
healthy now, and education so that they can take care of themselves in the
future. KCC works on a Christian base, but help is given to children of any
religion.

The key to solving the problems in this area is education. This has been
neglected in the past years with president Idi Amin and the following civil
wars. Now that the government is stable again, the children and parents have
to learn how to take care of themselves and how to avoid infections. There is
also help for people who are ill and hungry, but the primary goal is to
prevent people from getting ill and to teach them
 how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older
sister is taking care of them. Because these families are big and the income

(if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production
site for cement slabs. These are used to build a good latrine.
They are sold below cost price.

There is a clinic at the project, which provides children and their family medical help. Since 2020 a maternity ward was added and 24/7 service is available. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a
month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are

on
the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
If you must send a check send it to our Canadian partner:
https://www.kuwasha.net/

Canada: Contact Kuwasha in Surrey, Canada. They take care of the
Canadian sponsors for the children in Kibaale. Kuwasha
forwards 100% of the money to the project in Uganda. You can
send them a one time donation directly.
Please send me a note so that I know what has been donated
because of Vim. Look on their site for information about
sponsorship: https://www.kuwasha.net/
If you make a donation to Kuwasha you will receive a tax
receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting
ICCF Holland" in
Amersfoort. This will allow for tax deduction if you live in
Holland. ING bank, IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
https://iccf-holland.org/germany.html

Europe: Use a bank transfer if possible. See "Others" below for the
swift code and IBAN number.
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The e-mail address for sending the money to is:

Bram@iccf-holland.org

Others: Transfer to this account if possible:
ING bank: IBAN: NL95 INGB 0004 5487 74
Swift code: INGBNL2A
under the name "stichting ICCF Holland", Amersfoort
Checks are
not accepted.

vim:tw=78:ts=8:noet:ft=help:norl:

1.419 opkg-utils 0.5.0

1.419.1 Available under license :

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1.420 python3-cryptography 36.0.2

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1.423 python-pyyaml 5.4.1

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1.424 util-linux-libuuid 2.37.4

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
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1.425 gcc-run-time 11.4.0

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

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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1.426 glibc-locale 2.35

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1.428 libdbi-perl 1.643

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1.429 mtools 4.0.38

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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.445 rasdaemon 0.8.0

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1.446 idna 3.3

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If distribution of object code is made by offering access to copy

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That's all there is to it!

1.449 pyasn1 0.4.8

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ASN.1 library for Python
========================

.. toctree::
  :maxdepth: 1

Abstract Syntax Notation One (`ASN.1
<http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x>`_) is a
technology for exchanging structured data in a universally understood,
hardware agnostic way. Many industrial, security and telephony
applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements
ASN.1 support in pure-Python.

What is ASN.1

ASN.1 is a large, arguably over-engineered and extremely old data modelling and
serialisation tool. It is probably among the first serialisation protocols in
the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first
electronic mail (known as X.400). Later on if was split off the e-mail application
and become a stand-alone tech still being actively supported by its designers
and
 widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the
first, unsuccessful, version of the Internet. You can read many interesting
`discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation
problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_
or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example.
Interestingly, many new takes on binary protocol design do not depart
far from ASN.1 from technical perspective. It's more of a matter of striking
a balance between processing overhead, wire format overhead and human
readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types
 (integers, bits, strings, arrays and records) that can be used for describing

arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a
series of octets for storage or transmission over the wire as well as
recovered back into their structured form. The system is fully agnostic
to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms
of a schema language for ASN.1 compiler to turn it into platform-specific
implementation.

ASN.1 applications

Being an old and generally successful standard, ASN.1 is widely
adopted for many uses. To give you an example, these technologies
use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF,
ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas

Apparently, ASN.1 is hard to implement properly. Quality open-source
ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the
`statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered
security vulnerabilities, many people have implemented ASN.1 parsers
and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood
and security reviewed.

Documentation

.. toctree::
:maxdepth: 2

/pyasn1/contents

Use case

.. toctree::
  :maxdepth: 2

  /example-use-case

Download & Install

.. toctree::
  :maxdepth: 2

  /download

Changes

All changes and release history is maintained in changelog. There you
could also download the latest unreleased pyasn1 tarball containing
the latest fixes and improvements.

..
 toctree::
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  /changelog

License

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  :maxdepth: 2

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Getting help

Please, file your `issues <https://github.com/etingof/pyasn1/issues>`_
and `PRs <https://github.com/etingof/pyasn1/pulls>`_ at GitHub.
Alternatively, you could ask for help at
`Stack Overflow <http://stackoverflow.com/questions/tagged/pyasn1>`_
or search

`pyasn1-users <https://lists.sourceforge.net/lists/listinfo/pyasn1-users>`_
mailing list archive.

Books on ASN.1

The pyasn1 implementation is largely based on reading up the following awesome
books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson
* `ASN.1 Complete <http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>`_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

* `ITU standards
 <http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>`_

On the other end of the readability spectrum, here is a quick and sweet write up:

* `A Layman's Guide to a Subset of ASN.1, BER, and DER <ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>`_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper
book on the subject.

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* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>

License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier:
 Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
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Classifier: Topic :: Software Development :: Libraries :: Python Modules

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ASN.1 library for Python

[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)](https://pypi.org/project/pyasn1)
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)](https://pypi.org/project/pyasn1/)
[![Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)](https://secure.travis-ci.org/etingof/pyasn1)
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Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)](https://codecov.io/github/etingof/pyasn1)
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blue.svg)](https://raw.githubusercontent.com/etingof/pyasn1/master/LICENSE.txt)

This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range

of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
----

*
 Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by
 Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```bash
Record ::= SEQUENCE {
```

```
 id       INTEGER,
 room  [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
  componentType = NamedTypes(
     NamedType('id', Integer()),
     OptionalNamedType(
        'room', Integer().subtype(
           implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
        )
     ),
     DefaultedNamedType(
        'house',
 Integer(0).subtype(
           implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
        )
     )
  )
```

It is in the spirit of ASN.1 to take abstract data description
and turn it into a programming language specific form.
Once you have your ASN.1 data structure expressed in Python, you
can use it along the lines of similar Python type (e.g. ASN.1
`SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

Part of the power of ASN.1 comes from its serialisation features. You
can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
```

```
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from
network or read from a file, into a Python object which you can
introspect, modify,
 encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int,
list, dict etc.). But ASN.1 types exhibit more complicated behaviour.
To make life easier for a Pythonista, they can turn their pyasn1
classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of
Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':
 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
```

id=123
room=321
>>>
```

With ASN.1 design, serialisation codecs are decoupled from data objects,
so you could turn every single ASN.1 object into many different
serialised forms. As of this moment, pyasn1 supports BER, DER, CER and
Python built-ins codecs. The extremely compact PER encoding is expected
to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the
[documentation](http://snmplabs.com/pyasn1/),
compiled ASN.1 modules for different protocols and file formats
could be found in the pyasn1-modules
[repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
---

The pyasn1 package is distributed under terms and conditions of 2-clause
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely
available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If
 something does not work as expected,
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)
or try browsing pyasn1
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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Found in path(s):
* /opt/cola/permits/2308723715_1736184137.6761692/0/pyasn1-0-4-8-1-tar-gz/pyasn1-0.4.8/README.md

# 1.450 packaging 21.2

## 1.450.1 Available under license :

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Version 2.0, January 2004
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```

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1.457 redis 4.2.2

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1.461 netbase 6.3

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1.463 debianutils 5.7

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1.464 opkg-utils 0.5.0

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

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Version 3.1, 31 March 2009

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DRuntime: Runtime Library for the D Programming Language
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Version 3, 29 June 2007

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1.466 util-linux-libuuid 2.37.4

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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1.467 inetutils 2.2

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