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1.349 netty-transport-native-unix-common 4.1.107.Final

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1.616 pyyaml 6.0.3
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1.617 webapp-runner 9.0.86.0
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1.636 prometheus-common 0.32.1
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1.645 snake-yaml 2.3
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1.646 jackson-jaxrs 2.9.9
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1.647 base-files 13ubuntu10.3
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1.648 go-jose 4.1.3
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1.649 libmount 2.39.3-9ubuntu6.3
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1.653 activation-api 2.0.1
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1.654 sshj 0.38.0
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1.655 gcc-14-base 14.2.0-4ubuntu2~24.04
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1.657 webapp-runner-main 9.0.86.0

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1.665 memcached-session-manager 2.3.2

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1.676 cast 1.10.0

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1.808 httprc 3.0.1

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1.809 lestrrat-go-dsig 1.0.0

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1.810 acmez 3.1.4

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1.846 inflection 1.0.0
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1.847 cffi 2.0.0
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1.1 libjpeg 6b

1.1.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.1.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

==========

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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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of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

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

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

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the

resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

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

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

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

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

The
 JPEG standard itself is not available electronically; you must order a
paper copy through ISO or ITU. (Unless you feel a need to own a certified

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

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

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

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

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

1.2 objenesis 2.5.1

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1.3 net-tools 2.10

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1.4 jsr305 3.0.1

1.5 cache-api 1.1.1

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---

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
traditional one-character options, and GNU'ish
--long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
Alternate-site: sunsite.unc.edu /pub/Linux/libs
shhopt-1.1.2.tar.gz
Platforms: Requires ANSI C-compiler.
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1.7 libyaml 0.2.5

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1.8 javax-annotation-api 1.3.2

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1.10 servlet-api 3.1.0

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1.11 mpdecimal 2.5.1-2build2

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*/
```

1.12 sqlite 3.39.4

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```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite
```

is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option
 then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the
 Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**

```
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can
 be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided.  This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation
 statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
```

```
**
 ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary.  The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then
 each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum
 allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
```

** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
** the
 content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing
 subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^(SQLITE_CONFIG_LOOKASIDE
** sets the default lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom
 page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**

** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter
 to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()]
 or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices
 for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work

** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
**
 fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either
 the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**

** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
**
bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
**
[Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that
its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a

** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()]. This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control]. If this
** configuration setting is
never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option. If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/

Found in path(s):
* /sqlite-amalgamation-3390400-1-zip/sqlite-amalgamation-3390400/sqlite3.h
No license file was found, but licenses were detected in source scan.

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite
is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>

```
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option
 then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the
 Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can
```

be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided. This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation
statistics are
** disabled, the following SQLite interfaces become non-operational:
**
**   [sqlite3_hard_heap_limit64()]
**   [sqlite3_memory_used()]
**   [sqlite3_memory_highwater()]
**   [sqlite3_soft_heap_limit64()]
**   [sqlite3_status64()]
**   )^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
**
^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each

** page header. ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then
 each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum
 allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
** the

content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing
subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^(SQLITE_CONFIG_LOOKASIDE
** sets the default lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom
page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),

** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter
 to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()]
 or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices
 for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.

** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
**
 fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either
 the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
**

bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
**
[Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that
its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]

```
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()].  This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control].  If this
** configuration setting is
 never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option.  If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/
/*
** The "printf" code that follows dates from the 1980's.  It is in
** the public domain.
**
**************************************************************************
**
** This file contains code for a set of "printf"-like routines.  These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
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** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
**************************************************************************
**
** This file
 contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done.  The default
** implementation uses Posix Advisory Locks.  Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division.  PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT.  New code should be placed
```

** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**   * General-purpose declarations and utility functions.
**   * Unique file ID logic used by VxWorks.
**   * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory
 Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
**   * sqlite3_file methods not associated with locking.
**   * Definitions of sqlite3_io_methods objects for all locking
**   methods plus "finder" functions for each locking method.
**   * sqlite3_vfs method implementations.
**   * Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   * Definitions of sqlite3_vfs objects for all locking methods
**   plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

Found
 in path(s):
* /sqlite-amalgamation-3390400-1-zip/sqlite-amalgamation-3390400/sqlite3.c
No license file was found, but licenses were detected in source scan.

/* This will be more informative in a later version. */

Found in path(s):
* /sqlite-amalgamation-3390400-1-zip/sqlite-amalgamation-3390400/shell.c

1.13 openssl 1.1.1t

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```

1.14 librsync 2.3.4

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This package was debianized by John Goerzen <jgoerzen@complete.org> on
Mon, 11 Feb 2002 13:03:19 -0500.

The homepage is http://librsync.sourcefrog.net/.

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1.15 pcre 8.44

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Written by: Philip Hazel
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1.16 pcre 8.45

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1.17 jaxb-api 2.2.11

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* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlList.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAccessType.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAccessorOrder.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAccessorType.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAnyElement.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/attachment/AttachmentMarshaller.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/attachment/AttachmentUnmarshaller.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAccessOrder.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlSchemaTypes.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/W3CDomHandler.java
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 /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/Binder.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlMixed.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAttachmentRef.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/DomHandler.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlElementWrapper.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlInlineBinaryData.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/SchemaOutputResolver.java
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* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlElementRefs.java

* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlIDREF.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/ParseConversionEvent.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/adapters/NormalizedStringAdapter.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlID.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlRootElement.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlElementRef.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/adapters/XmlJavaTypeAdapters.java
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* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/adapters/XmlAdapter.java
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* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlTransient.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlAttribute.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/annotation/XmlEnumValue.java
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* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/JAXBContext.java
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* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/MarshalException.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/helpers/Messages.java
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* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/Validator.java
* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/util/ValidationEventCollector.java

* /jaxb-api-2-2-11-sources-5-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java
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* /reflectasm-1-11-9-sources-2-jar/com/esotericsoftware/reflectasm/AccessClassLoader.java

1.19 jq 2.3025850929940456840179914546843642076 01

1.19.1 Available under license :

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1.20 erlang-otp 25.3.2.8

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 * Website: https://www.gnu.org/software/autoconf/
 * OTP Location: ./make/configure and
 ./erts/configure and
 ./lib/erl_interface/configure and
 ./lib/crypto/configure and
 ./lib/wx/configure and
 ./lib/megaco/configure and
 ./lib/snmp/configure and
 ./lib/odbc/configure and
 ./lib/common_test/test_server/configure and
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 * Version: 2.71
 * Website:
 https://www.gnu.org/software/autoconf/
 * OTP Location: ./make/autoconf/config.{guess,sub} and
 ./erts/autoconf/config.{guess,sub} and
 ./lib/common_test/test_server/config.{guess,sub}

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 * Version: 2.71
 * Website: https://www.gnu.org/software/autoconf/
 * OTP Location: ./make/autoconf/install-sh and
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 * Library: TCL
 * Version 7.6
 * Website: https://www.tcl.tk/
 * OTP Location: ./erts/emulator/beam/erl_posix_str.c

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* ./lib/kernel/doc/src/peer.xml
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[AsmJit]

* Info
 * SPDX-License-Identifier: Zlib
 * Library: AsmJit
 * Git Repository: https://github.com/asmjit/asmjit
 * Commit: 23ddf56b00f47d8aa0c82ad225e4b3a92661da7e
 * OTP Location: erts/emulator/asmjit

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 * Version: 8.44
 * Website: https://pcre.org
 * OTP Location: ./erts/emulator/pcre

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Written by: Philip Hazel
Email local part: ph10
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[zlib]

*
 Info:
 * SPDX-License-Identifier: Zlib
 * Library: Zlib
 * Version: 1.2.12
 * Website: https://zlib.net/
 * OTP Location: ./erts/emulator/zlib

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.12, March 11th, 2022

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

 The data format used by the zlib library is described by RFCs (Request for
 Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

[ryu]

* Info:

```
 * SPDX-License-Identifier: Apache-2.0 OR BSL-1.0
 * Library: RYU
 * Git repository: https://github.com/ulfjack/ryu
 * Commit: 844864ac213bdbf1fb57e6f51c653b3d90af0937
 * OTP Location: ./erts/emulator/ryu

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 * Library: STL
 * Git repository: https://github.com/microsoft/STL
 * Commit: e745bad3b1d05b5b19ec652d68abb37865ffa454
 * Original function:
https://github.com/microsoft/STL/blob/e745bad3b1d05b5b19ec652d68abb37865ffa454/stl/inc/xcharconv_ryu.h#L1
926
 * OTP Location: ./erts/emulator/ryu/d2s.c:to_chars()

// xcharconv_ryu.h internal header

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* Info:
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 * Git Repository: https://github.com/Maratyszcza/FP16
 * Commit: 0a92994d729ff76a58f692d3028ca1b64b145d91
 * OTP Location: ./erts/emulator/beam/erl_bits_f16.h

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[OpenSSL MD5 implementation]

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 * Version: 3.1.4
 * Git Repository: https://github.com/openssl/openssl
 * Commit: 01d5e2318405362b4de5e670c90d9b40a351d053
 * OTP Location: ./erts/emulator/openssl and
 ./lib/erl_interface/src/openssl

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 * Commit: 36c595f56c12a44adbc942eef218df85137cbbee
  * OTP Location: ./lib/eldap/src/eldap.erl

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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
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1.22 giflib 5.2.2

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1.23 istack-commons 3.0.5

1.23.1 Available under license :

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Found in path(s):
* /istack-commons-runtime-3-0-5-jar/META-INF/maven/com.sun.istack/istack-commons-runtime/pom.xml
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bundle-Description: istack common utility code
Implementation-Title: istack common utility code runtime
Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, h
ttps://glassfish.java.net/public/CDDL+GPL_1_1.html
Bundle-SymbolicName: com.sun.istack.commons-runtime
Implementation-Version: 3.0.5
Built-By: build
Bnd-LastModified: 1486772850426
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: com.sun.istack
Bundle-DocURL: http://www.oracle.com/
Bundle-Vendor: Oracle Corporation
Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream,
org.xml.sax,org.xml.sax.helpers
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007
Implementation-Vendor: Oracle Corporation
Export-Package: com.sun.istack;uses:="javax.activation,javax.xml.strea
m,org.xml.sax,org.xml.sax.helpers";version="3.0.5",com.sun.istack.log
ging;version="3.0.5",com.sun.istack.localization;version="3.0.5"
Bundle-Name:
istack common utility code runtime
Bundle-Version: 3.0.5
Implementation-Build-Id: tags/istack-commons-3.0.5-321, 2017-02-11T01:
27:24+0100
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_112

Found in path(s):
* /istack-commons-runtime-3-0-5-jar/META-INF/MANIFEST.MF

1.24 sqlite 3.45.2

1.24.1 Available under license :

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```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()].  The few exceptions to this rule are called
** "anytime configuration options".
** ^Calling [sqlite3_config()] with a first argument that is not an
** anytime configuration option in between calls to [sqlite3_initialize()] and
** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
**
** The set of anytime configuration options can change (by insertions
** and/or deletions) from one release of SQLite to the next.
** As of SQLite version 3.42.0, the complete set of anytime configuration
** options is:
** <ul>
** <li> SQLITE_CONFIG_LOG
**
 <li> SQLITE_CONFIG_PCACHE_HDRSZ
** </ul>
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called
```

with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
**
<dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option
takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]

```
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC
 option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided.  This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**
  <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
```

** (a power
 of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond
 what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer
 is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of

** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the
 build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE
 option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^(SQLITE_CONFIG_LOOKASIDE
** sets the default lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is
 a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a

** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or
 an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as
 URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change
 even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE

** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1,
 then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE]
 compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra

** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The
 SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals
 never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order.
 The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behavior.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**

```
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()].  This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control].  If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option.  If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/
```

Found in path(s):
* /sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.h
No license file was found, but licenses were detected in source scan.

```
/*
** 2022-11-18
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
******************************************************************************
**
** This is a SQLite extension for converting in either direction
** between a (binary) blob and base64 text. Base64 can transit a
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals,
** and can be used unmodified in XML-like documents.
**
** This is an independent implementation of conversions specified in
** RFC 4648, done on the above date by the author (Larry Brasfield)
** who thereby has the right to put this into the public domain.
**
** The conversions meet RFC 4648 requirements,
 provided that this
** C source specifies that line-feeds are included in the encoded
** data to limit visible line lengths to 72 characters and to
** terminate any encoded blob having non-zero length.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
```

```
** Generated base64 sequences, with their line-feeds included,
** can be concatenated; the result converted back to binary will
** be the concatenation of the represented binary sequences.
**
** This SQLite3 extension creates a function, base64(x), which
** either: converts text x containing base64 to a returned blob;
** or converts a blob x to returned text containing base64. An
** error will be thrown for other input argument types.
**
** This code relies on UTF-8 encoding only with respect to the
** meaning of the first 128 (7-bit) codes matching that of USASCII.
** It will fail miserably
 if somehow made to try to convert EBCDIC.
** Because it is table-driven, it could be enhanced to handle that,
** but the world and SQLite have moved on from that anachronism.
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** *Nix: gcc -O2 -shared -I$SQDIR -fPIC -o base64.so base64.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR -o base64.dylib base64.c
** Win32: gcc -O2 -shared -I%SQDIR% -o base64.dll base64.c
** Win32: cl /Os -I%SQDIR% base64.c -link -dll -out:base64.dll
*/
/*
** 2022-11-16
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
*************************************************************************
**
** This is a utility for converting binary to base85 or vice-versa.
** It can be built as a standalone
 program or an SQLite3 extension.
**
** Much like base64 representations, base85 can be sent through a
** sane USASCII channel unmolested. It also plays nicely in CSV or
** written as TCL brace-enclosed literals or SQL string literals.
** It is not suited for unmodified use in XML-like documents.
**
** The encoding used resembles Ascii85, but was devised by the author
** (Larry Brasfield) before Mozilla, Adobe, ZMODEM or other Ascii85
** variant sources existed, in the 1984 timeframe on a VAX mainframe.
** Further, this is an independent implementation of a base85 system.
```

```
** Hence, the author has rightfully put this into the public domain.
**
** Base85 numerals are taken from the set of 7-bit USASCII codes,
** excluding control characters and Space ! " ' ( ) { | } ~ Del
** in code order representing digit values 0 to 84 (base 10.)
**
** Groups of 4 bytes, interpreted as big-endian 32-bit values,
** are represented as 5-digit base85 numbers with MS to LS digit
** order. Groups
 of 1-3 bytes are represented with 2-4 digits,
** still big-endian but 8-24 bit values. (Using big-endian yields
** the simplest transition to byte groups smaller than 4 bytes.
** These byte groups can also be considered base-256 numbers.)
** Groups of 0 bytes are represented with 0 digits and vice-versa.
** No pad characters are used; Encoded base85 numeral sequence
** (aka "group") length maps 1-to-1 to the decoded binary length.
**
** Any character not in the base85 numeral set delimits groups.
** When base85 is streamed or stored in containers of indefinite
** size, newline is used to separate it into sub-sequences of no
** more than 80 digits so that fgets() can be used to read it.
**
** Length limitations are not imposed except that the runtime
** SQLite string or blob length limits are respected. Otherwise,
** any length binary sequence can be represented and recovered.
** Base85 sequences can be concatenated by separating them with
** a non-base85 character; the conversion to binary
 will then
** be the concatenation of the represented binary sequences.

** The standalone program either converts base85 on stdin to create
** a binary file or converts a binary file to base85 on stdout.
** Read or make it blurt its help for invocation details.
**
** The SQLite3 extension creates a function, base85(x), which will
** either convert text base85 to a blob or a blob to text base85
** and return the result (or throw an error for other types.)
** Unless built with OMIT_BASE85_CHECKER defined, it also creates a
** function, is_base85(t), which returns 1 iff the text t contains
** nothing other than base85 numerals and whitespace, or 0 otherwise.
**
** To build the extension:
** Set shell variable SQDIR=<your favorite SQLite checkout directory>
** and variable OPTS to -DOMIT_BASE85_CHECKER if is_base85() unwanted.
** *Nix: gcc -O2 -shared -I$SQDIR $OPTS -fPIC -o base85.so base85.c
** OSX: gcc -O2 -dynamiclib -fPIC -I$SQDIR $OPTS -o base85.dylib base85.c
** Win32: gcc -O2
```

-shared -I%SQDIR% %OPTS% -o base85.dll base85.c
** Win32: cl /Os -I%SQDIR% %OPTS% base85.c -link -dll -out:base85.dll
**
** To build the standalone program, define PP symbol BASE85_STANDALONE. Eg.
** *Nix or OSX: gcc -O2 -DBASE85_STANDALONE base85.c -o base85
** Win32: gcc -O2 -DBASE85_STANDALONE -o base85.exe base85.c
** Win32: cl /Os /MD -DBASE85_STANDALONE base85.c
*/
/* This will be more informative in a later version. */

Found in path(s):
* /sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/shell.c
No license file was found, but licenses were detected in source scan.

/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** Most of the configuration options for sqlite3_config()
** will only work if invoked prior to [sqlite3_initialize()] or after
** [sqlite3_shutdown()]. The few exceptions to this rule are called
** "anytime configuration options".
** ^Calling [sqlite3_config()] with a first argument that is not an
** anytime configuration option in between calls to [sqlite3_initialize()] and
** [sqlite3_shutdown()] is a no-op that returns SQLITE_MISUSE.
**
** The set of anytime configuration options can change (by insertions
** and/or deletions) from one release of SQLite to the next.
** As of SQLite version 3.42.0, the complete set of anytime configuration
** options is:
**
** SQLITE_CONFIG_LOG
**
 SQLITE_CONFIG_PCACHE_HDRSZ
**
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>

** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called
 with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
**
 <dd>There are no arguments to this option. ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option
 takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of

```
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC
 option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided.  This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**
  <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
```

** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power
 of two between 512 and 65536) plus some extra bytes for each
** page header. ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary. The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond
 what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer
 is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.

** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^ ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the
 build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE
 option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^(SQLITE_CONFIG_LOOKASIDE
** sets the default lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object. This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which

** is
 a pointer to an [sqlite3_pcache_methods2] object. SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or
 an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as
 URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans

** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change
 even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1,
 then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE]
 compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is

** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The
 SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer. The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option. New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals
 never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference

```
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order.
 The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behavior.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()].  This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control].  If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option.  If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/
/*
** The "printf" code that follows dates
 from the 1980's.  It is in
** the public domain.
**
**************************************************************************
**
** This file contains code for a set of "printf"-like routines.  These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
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** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
**************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
```

```
** The differences are in the way that file
 locking is done.  The default
** implementation uses Posix Advisory Locks.  Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division.  PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT.  New code should be placed
** in the correct division and should be clearly labelled.
**
** The layout of divisions is as follows:
**
**   *  General-purpose declarations and utility functions.
**   *  Unique file ID logic used by VxWorks.
**   *  Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory Locks
**      + for no-op locks
**      + for dot-file locks
**      + for flock() locking
**      + for named semaphore locks (VxWorks only)
**      + for AFP filesystem locks (MacOSX only)
**   *  sqlite3_file methods not associated with locking.
**
  *  Definitions of sqlite3_io_methods objects for all locking
**     methods plus "finder" functions for each locking method.
**   *  sqlite3_vfs method implementations.
**   *  Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   *  Definitions of sqlite3_vfs objects for all locking methods
**      plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager.  This is a buffer that is big enough to hold the
** entire content of a database page.  This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs.  But other modules are free to use it too, as long as
** no rollbacks are happening.
*/
```

Found in path(s):
* /sqlite-amalgamation-3450200-zip/sqlite-amalgamation-3450200/sqlite3.c

1.25 openssl 1.1.1y

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```
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* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* 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)
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*/
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href="http://httpd.apache.org/lists.html">mailing lists.
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var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
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1.28 rocksdb 9.6.1

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1.30 openssl 3.4.1

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1.33 sqlite 2024-03-12

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1.34 openssl 3.5.2

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1.35 erlang-otp 27.3.4.2

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 * Website: https://www.gnu.org/software/autoconf/
 * OTP Location: ./make/configure and
 ./erts/configure and
 ./lib/erl_interface/configure and
 ./lib/crypto/configure and
 ./lib/wx/configure and
 ./lib/megaco/configure and
 ./lib/snmp/configure and
 ./lib/odbc/configure and
 ./lib/common_test/test_server/configure and
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[config.guess and config.sub scripts]

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 * Tool: Autoconf
 * Version: 2.71
 * Website:
 https://www.gnu.org/software/autoconf/
 * OTP Location: ./make/autoconf/config.{guess,sub} and
 ./erts/autoconf/config.{guess,sub} and
 ./lib/common_test/test_server/config.{guess,sub}

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Originally written by Per Bothner; maintained since 2000 by Ben Elliston.
#
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#

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[install-sh scripts]

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 * Tool: Autoconf
 * Version: 2.71
 * Website: https://www.gnu.org/software/autoconf/
 * OTP Location: ./make/autoconf/install-sh and
 ./erts/autoconf/install-sh and
 ./lib/common_test/test_server/install-sh

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[erl_posix_str.c]

* Info:
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* Modification of tclPosixStr.c from TCL
* Library: TCL
* Version 7.6
* Website: https://www.tcl.tk/
* OTP Location: ./erts/emulator/beam/erl_posix_str.c

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 and ./bootstrap/lib/stdlib/include/assert.hrl
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 ./lib/dialyzer/test/options1_SUITE_data/src/compiler/cerl_trees.erl
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 and
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* ./lib/kernel/src/pg.erl and
 ./lib/kernel/test/pg_SUITE.erl and ./lib/stdlib/src/peer.erl
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[AsmJit]

* Info
 * SPDX-License-Identifier: Zlib
 * Library: AsmJit
 * Git Repository: https://github.com/asmjit/asmjit
 * Commit: a465fe71ab3d0e224b2b4bd0fac69ae68ab9239d
 * OTP Location: erts/emulator/asmjit

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[PCRE]

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 * Version: 8.45
 * Website: https://pcre.org
 * OTP Location: ./erts/emulator/pcre

PCRE LICENCE

PCRE is a library of functions to support regular expressions whose syntax
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 in the "doc"
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THE BASIC LIBRARY FUNCTIONS

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

University of Cambridge Computing Service,
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End

[zlib]

* Info:
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Zlib
* Library: Zlib
* Version: 1.2.13
* Website: https://zlib.net/
* OTP Location: ./erts/emulator/zlib

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.13, October 13th, 2022

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

The data format used by the zlib library is described by RFCs (Request for
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(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

[ryu]

* Info:
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 * Library: RYU
 * Git repository: https://github.com/ulfjack/ryu
 * Commit: 844864ac213bdbf1fb57e6f51c653b3d90af0937
 * OTP Location: ./erts/emulator/ryu

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[to_chars() function in ryu]

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 * Library:
 STL
 * Git repository: https://github.com/microsoft/STL
 * Commit: e745bad3b1d05b5b19ec652d68abb37865ffa454
 * Original function:
https://github.com/microsoft/STL/blob/e745bad3b1d05b5b19ec652d68abb37865ffa454/stl/inc/xcharconv_ryu.h#L1926
 * OTP Location: ./erts/emulator/ryu/d2s.c:to_chars()

// xcharconv_ryu.h internal header

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*
Info:
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* Git Repository: https://github.com/Maratyszcza/FP16
* Commit: 0a92994d729ff76a58f692d3028ca1b64b145d91
* OTP Location: ./erts/emulator/beam/erl_bits_f16.h

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[OpenSSL MD5 implementation]

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 * Version: 3.1.4
 * Git Repository: https://github.com/openssl/openssl
 * Commit: 01d5e2318405362b4de5e670c90d9b40a351d053
 * OTP Location: ./erts/emulator/openssl and
 ./lib/erl_interface/src/openssl

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 * Commit: 36c595f56c12a44adbc942eef218df85137cbbee
 * OTP Location: ./lib/eldap/src/eldap.erl

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 * Commit: 984defc2deaa653cb73cd29f4144a720ec9efe7c
 * OTP Location: ./lib/stdlib/test/json_SUITE_data

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 * Version: 3.7.1
 * Commit: f79d5f1a337528940ab7029d4f8bbba72326f269
 * Website: https://jquery.com/
 * OTP Location: ./lib/common_test/priv/jquery-latest.js

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 * Git Repository: https://github.com/Mottie/tablesorter
 * Version: 2.32
 * Commit: 1423f5408982f58d5baa97648d2e5ee0b55fd3b6
 * OTP Location: ./lib/common_test/priv/jquery.tablesorter.min.js

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1.37 jvm-hotspot-amazon 17.0.17u10

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1.39 libsndfile 1.2.2-1ubuntu5.24.04.1

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Apache License

Version 2.0, January 2004

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

Found in path(s):
* /bcpkix-fips-1-0-3-sources-1-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.41 now 1.1.5

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1.43 at-spi2-core 2.52.0-1build1

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That's all there is to it!

1.44 jackson-annotations 2.16.1

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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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* /netty-resolver-dns-4-1-107-final-sources-jar/META-INF/native-image/io.netty/netty-resolver-dns/native-image.properties

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

```
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* Copyright 2023 The Netty Project
*
* The Netty Project licenses this file to you under the Apache License,
* version 2.0 (the "License"); you may not use this file except in compliance
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*
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* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
```

Found in path(s):
* /netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/DnsErrorCauseException.java
No license file was found, but licenses were detected in source scan.

```
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* Copyright 2015 The Netty Project
*
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* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
* WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
* License for the specific language governing permissions and limitations
* under the License.
*/
```

Found in path(s):
* /netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/SingletonDnsServerAddresses.java
* /netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java
* /netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/RotationalDnsServerAddresses.java
*
/netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/SequentialDnsServerAddressStream.java
* /netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/DnsServerAddressStream.java
* /netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/DefaultDnsServerAddresses.java
* /netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/DnsNameResolverBuilder.java
* /netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/DnsNameResolverException.java

* /netty-resolver-dns-4-1-107-final-sources-jar/io/netty/resolver/dns/DnsQueryContextManager.java
No license file was found, but licenses were detected in source scan.

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~ distributed under the License is distributed on an "AS IS" BASIS, WITHOUT
~ WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the
~ License for the specific language governing permissions and limitations
~ under the License.
-->

Found in path(s):
* /netty-resolver-dns-4-1-107-final-sources-jar/META-INF/maven/io.netty/netty-resolver-dns/pom.xml

1.50 perl-base 5.38.2-3.2ubuntu0.2

1.50.1 Available under license :

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

?RCS: $Id: startsh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startsh.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 16:25:31 ram
?RCS: patch61: avoid needless chatter since this is now done very early
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:51 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startsh: sh sharpbang eunicefix
?MAKE: -pick add $@ %<
?S:startsh:

```
?S: This variable contains the string to put on the front of a shell
?S: script to make sure (hopefully) that it runs with sh and not some
?S: other
 shell.
?S:.
?F:!sharp
: figure out how to guarantee sh startup
?X: Avoid needless chatter since this is now done very early.
?X: echo " "
?X: echo "Checking out how to guarantee sh startup..." >&2
case "$startsh" in
") startsh=${sharpbang}${sh} ;;
*)
?X: echo "Let's see if '$startsh' works..." ;;
esac
cat >sharp <<EOSS
$startsh
set abc
test "$?abc" != 1
EOSS

chmod +x sharp
$eunicefix sharp
if ./sharp; then
 : echo "Yup, it does."
else
 echo "Hmm... '$startsh' does not guarantee sh startup..."
 echo "You may have to fix up the shell scripts to make sure $sh runs them."
fi
rm -f sharp

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/startsh.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: AAAAA.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: AAAAA.U,v $
?RCS: Revision 3.0.1.4  1994/06/20  06:50:26  ram
?RCS: patch30: changes from Jarkko Hietaniemi are tagged with JHI
```

?RCS:
?RCS: Revision 3.0.1.3 1994/05/06 14:01:39 ram
?RCS: patch23: initials for Wayne Davison are now WED
?RCS: patch23: added initials for new unit contributor Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2 1994/01/24 14:01:09 ram
?RCS: patch16: make metalint shut up on special unit definition for All target
?RCS:
?RCS: Revision
 3.0.1.1 1993/09/13 15:43:57 ram
?RCS: patch10: documents initials used for Wayne Davison's contributions
?RCS:
?RCS: Revision 3.0 1993/08/18 12:04:44 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply the head of the Makefile created
?X: by metaconfig. For this reason it must be first in alphabetical order.
?X: The leading '+' in front of the unit name is a hint for metalint, since
?X: the use of that special unit name as a "made" unit is legitimate here.
?X:
?MAKE:+All: Finish
?X:
?X: Throughout the units, the following initials are used to identify comments:
?X:
?X: HMS: Harlan Stenn
?X: RAM: Raphael Manfredi
?X: WED: Wayne Davison (was WAD by mistake--RAM)
?X: ADO: Andy Dougherty
?X: JHI: Jarkko Hietaniemi
?X:
?X: Agreed, this is a weird place to document it, but I couldn't find a better
?X: place to do so. I've bet on the curiosity of users, who would probably
?X: want to know what's in this strangely-named file--RAM.

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/AAAAA.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_passwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root

?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_passwd.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:37:21 ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1 1994/08/29 16:09:51 ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_passwd.U
No license file was found, but licenses were detected in source scan.

/*
* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises. Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*
* \$Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Config_h.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml3dir sitehtml3direxp installsitehtml3dir: Getfile \
 Setprefixvar prefix siteprefix html3dir sed

```
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml3dir="
?S:sitehtml3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: library html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml3direxp="
?S:sitehtml3direxp:
?S: This variable is the same as the sitehtml3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml3dir="
?S:installsitehtml3dir:
?S: This variable is really the same as sitehtml3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml3dir
?LINT:set sitehtml3dir
?LINT:set sitehtml3direxp
: determine where add-on library html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case
 "$sitehtml3dir" in
")    dflt=`echo "$html3dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific library html pages should be installed?'
. ./getfile
prefixvar=sitehtml3dir
. ./setprefixvar
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitehtml3dir.U
No license file was found, but licenses were detected in source scan.

```
/* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*/
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Config_h.U
No license file was found, but licenses were detected in source scan.

```
/*|?:[\\/]*)
if test -f "$xxx"; then
: ok
else
echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*) xxx=`./loc $xxx $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
```

```
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$$file
case "$xxx" in
/*|?:[\\/]*)
if test -f "$xxx"; then
: ok
else
echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*)
 xxx=`./loc $xxx $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't see $file out there, $say."
say=either
;;
esac
done
case "$egrep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$grep
;;
esac
@if less
case "$less" in
") ;;
*) if $less -R </dev/null >/dev/null 2>&1; then
echo "Substituting less -R for less."
less="$less -R"
_less=$less
fi
;;
```

```
esac
@end
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$cp
;;
esac
@end
@if make || gmake
case "$make" in
make)
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
# Assume that gmake, if found, is definitely
 GNU make
# and prefer it over the system make.
echo "Substituting gmake for make."
make=$gmake
_make=$gmake
fi
;;
esac
@end
case "$test" in
test)
echo "Hopefully test is built into your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
```

```
?X:
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in
echo)
echo "Hopefully echo is built into your sh."
;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible.  In fact, they may be identical."
else
case "$n" in
'-n') n='' c='\c';;
*) n='-n' c='';;
esac
cat
 <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
$echo $n "The star should be here-->$c"
$echo "*"
fi
$rm -f foo1 foo2
;;
esac

?X: The next part is irrelevant to the real process
# This question was auctioned at YAPC::Europe-2007 in Vienna
# I never promised you could answer it. I only auctioned the question.
cat <<FOO
The following message is sponsored by

Dresden.pm<--The stars should be here.
```

Dear Perl user, system administrator or package
maintainer, the Perl community sends greetings to
you. Do you (emblematical) greet back [Y/n]? n

FOO

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Loc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: libc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10 1997/02/28 15:56:48 ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9 1995/07/25 14:11:56 ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8 1995/05/12 12:20:47 ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun
 like everybody
?RCS: patch54: can now grok Linux nm output with lead __IO (ADO)
?RCS: patch54: added support for Linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7 1994/10/29 16:23:40 ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6 1994/08/29 16:28:10 ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5 1994/06/20 07:03:24 ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4 1994/05/06 15:06:33 ram
?RCS: patch23: added shared library knowledge (ADO and WED)

```
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo
 systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc +nm_extract: echo n c rm test grep Getfile Myread Oldconfig Loc \
 sed libs incpath libpth ar runnm nm nm_opt nm_so_opt contains xlibpth \
 so _a _o osname trnl tr sort uniq sysroot
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:extern PASE
?LINT:extern libnames
?LINT:change nm_opt
?INIT:libnames="
: Figure out where the libc is located
case "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
:
 get list of predefined functions in a handy place
echo " "
case "$libc" in
") libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
") ;;
```

```
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib" ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use
 "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
```

```
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing
 pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set $sysroot/usr/ccs/lib/libc.$so
 $test -r $1 || set $sysroot/lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo "Your C library seems to be in both /lib/clib
 and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
```

```
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc
 Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt="
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM
```

```
None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case $# in 1) xxx=file; esac
echo
 "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval "<libc.tmp $com >libc.list"; echo "done." >&4'
?X:
```

```
 BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HP-UX 10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
?X: GNU extension: i is "indirect function"
xxx='[ADTSIWi]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$'
 libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
```

```
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: OS/2
 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo
 "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
```

```
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if  bld t $libc | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo "Ok." >&4
   else
    echo
 "That didn't work either.  Giving up." >&4
    exit 1
   fi
  fi
 fi
fi
nm_extract="$com"
case "$PASE" in
define)
   echo " "
   echo "Since you are compiling for PASE, extracting more symbols from libc.a ...">&4
   dump -Tv /lib/libc.a | awk '$7 == "/unix" {print $5 " " $8}' | grep "^SV" | awk '{print $2}' >> libc.list
   ;;
*)  if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
   fi
   ;;
esac
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: etc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: etc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:etc etcexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:etc:
?S: This variable holds the name of the directory in which the user wants
?S: to put "administrative" executable images for the package in question.
?S: It is most often a local directory such as /usr/local/etc. Programs
?S: relying on this variable must be prepared to deal with
 ~name
?S: substitutions.
?S:.
?S:etcexp:
?S: This is the same as the etc variable, but is filename expanded at
?S: configuration time, for convenient use in makefiles.
?S:.
: determine where administrative executables go
case "$etc" in
")
 dflt=`./loc . /local/etc /usr/local/etc /local/etc /usr/etc /etc`
 ;;
*)
 dflt="$etc"
 ;;
esac
fn=d~
rp='Where should the administrative executables go?'
. ./getfile
etc="$ans"
etcexp="$ansexp"
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/etc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and CONFIG,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint file or a previous config.sh file.
?X:
?MAKE:Oldsym:
 Config_sh Options test hint src sed sort uniq
?MAKE: -pick add $@ %<
?T:CONFIG sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "CONFIG=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
```

```
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh |\
  $sort | $uniq -u >UU/oldsyms
 set X `cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  cat <<EOM
Hmm...You had some extra variables I don't know about...I'll
 try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `cat UU/oldsyms`; do
   echo "    Propagating $hint variable '"'$sym'"'..."
   eval 'tmp="'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\"'\"'/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?X:
?X: This unit produces a shell script which can be run in order to emit
?X: an important warning to the user, which will be remembered and shown
?X: at the end of the Configure run as well.
?X:
?X: A typical use would be:
?X:
?X:  ./warn <<EOM
?X:  Problem with your C compiler: can't turn debugging on.
?X:  EOM
```

```
?X:
?X: or:
?X:
?X:  ./warn "Problem with your C compiler: can't turn debugging on."
?X:
?X: Which will both display to the user:
?X:
?X:  ***
 WARNING:
?X:  *** Problem with your C compiler: can't turn debugging on.
?X:  ***
?X:
?MAKE:Warn: startsh eunicefix
?MAKE: -pick add $@ %<
?F:./warn
: script used to emit important warnings
cat >warn <<EOS
$startsh
?X: Read the whole warning message from stdin into a temporary file
?X: when no argument was supplied.
if test \$# -gt 0; then
 echo "\$@" >msg
else
 cat >msg
fi
?X: Emit the warning, prefixing all lines with '*** '
echo "*** WARNING:" >&4
sed -e 's/^/*** /' <msg >&4
echo "*** " >&4
?X: Save the warning in the logs, which will be shown again at the end
cat msg >>config.msg
echo " " >>config.msg
rm -f msg
EOS
chmod +x warn
$eunicefix warn

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Warn.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: maildir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: maildir.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:56  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:maildir maildirexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:maildir:
?S: This variable contains the name of the directory in which mail is
?S: spooled. Programs using this variable must be prepared to deal with
?S: ~name
 substitutions.
?S:.
?S:maildirexp:
?S: This is the same as the maildir variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
: determine where mail is spooled
case "$maildir" in
") dflt=`./loc . /usr/spool/mail /usr/spool/mail /usr/mail /var/mail`;;
*) dflt="$maildir";;
esac
echo " "
fn=d~
rp='Where is yet-to-be-read mail spooled?'
. ./getfile
maildir="$ans"
maildirexp="$ansexp"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/maildir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
```

```
?X: is any discrepancy.
?X:
?X: To use it, say:
?X: set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
?X: eval $hasfield_t;
?X:
?MAKE:Hasfield_t: test Compile rm_try Setvar
?MAKE: -pick add $@ %<
?LINT:define hasfield_t
?S:hasfield_t:
?S: Internal macro for Configure
?S:.
?V:hasfield_t:
?T:varname struct type field
: Define hasfield_t macro for Configure internal use
hasfield_t='varname=$1; struct=$2; type=$3; field=$4; shift; shift; shift; shift;
while $test $# -ge 2; do
   case
 "$1" in
 $define) echo "#include <$2>";;
   esac ;
   shift 2;
done > try.c;
echo "int main () { $struct foo; $type bar = foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Hasfield_t.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Chk_MANI.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: Chk_MANI.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:57:25  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:33:14  ram
?RCS: patch44: now lists Begin instead of Myinit in its dependencies
?RCS: patch44: leading comment now explains how this unit is included
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks the package by making sure
 every file listed in MANIFEST
?X: is present. It is systematically "included" via the Finish unit (which
?X: is always present in every Configure script), although it may result in
?X: an empty inclusion when no MANIFEST is present.
?X:
?MAKE:Chk_MANI: Begin c n rsrc
?MAKE: -pick wipe $@ %<
?T:filelist ans tmppwd
?X: This check happens at metaconfig-time, so it's ok to hard-code the path.
@if {test -f ../MANIFEST}
: Now test for existence of everything in MANIFEST
echo " "
if test -f "$rsrc/MANIFEST"; then
 echo "First let's make sure your kit is complete.  Checking..." >&4
?X:
?X: Files spelled uppercased and beginning with PACK are produced by the
?X: shell archive builder and may be removed by the user. Usually, they are
?X: not listed in the MANIFEST file, but you never know...
?X:
?X: "split -l" is the new way of running a split, but we also try the older way
?X:
 awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
  (split -l 50 2>/dev/null || split -50)
 rm -f missing
 tmppwd=`pwd`
 for
 filelist in x??; do
  (cd "$rsrc"; ls `cat "$tmppwd/$filelist"` \
   >/dev/null 2>>"$tmppwd/missing")
 done
 if test -s missing; then
  cat missing >&4
  cat >&4 <<'EOM'

THIS PACKAGE SEEMS TO BE INCOMPLETE.
```

```
You have the option of continuing the configuration process, despite the
distinct possibility that your kit is damaged, by typing 'y'es.  If you
do, don't blame me if something goes wrong.  I advise you to type 'n'o
and contact the author (<MAINTLOC>).

EOM
?X: Can't use $echo at this early stage
  echo $n "Continue? [n] $c" >&4
  read ans
  case "$ans" in
  y*)
   echo "Continuing..." >&4
   rm -f missing
   ;;
  *)
?X:
?X: Use kill and not exit, so that the trap gets executed to clean up
?X:
   echo "ABORTING..." >&4
   kill $$
   ;;
  esac
 else
  echo "Looks good..."
 fi
else
 echo "There is no MANIFEST file.  I hope your kit is complete !"
fi
rm -f missing x??

@end

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Chk_MANI.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Compile.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
```

```
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs test
?MAKE: -pick wipe $@ %<
?LINT:extern usedevel maintloc
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2
 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile, except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
case "$usedevel" in $define|true|[yY]*) if $test ! -f "${mc_file}.c"; then
echo "Internal Configure script bug - compiler test file ${mc_file}.c is missing. Please report this to <$maintloc>"
>&4;
exit 1;
fi;
esac;
$cc
 -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
```

```
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extract.U,v 3.0.1.2 1997/02/28 14:58:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running
 Configure from a remote directory ($src is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: src
?MAKE: -pick add $@ %<
?F:./extract
?T:PERL_CONFIG_SH dir file name create mkdir_p
: script used to extract .SH files with variable substitutions
cat >extract <<'EOS'
PERL_CONFIG_SH=true
echo "Doing variable substitutions on .SH files..."
if test -f MANIFEST; then
 set x `awk '{print $1}' < MANIFEST | grep '\.SH$'`
else
```

```
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$src"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$src"; echo *.SH)`; shift;;
esac
if test ! -f "$src/$1"; then
 shift
fi
?X: script to emulate mkdir -p
mkdir_p='
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create";
  name=`echo $name | sed -e "s|^[^/]*$||"`;
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`;
 else
  name="";
 fi;
done;
for file in $create; do
 mkdir $file;
done
'
for file in $*;
 do
 case "$src" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd "$dir" && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
```

```
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to
 be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (set x $dir; shift; eval $mkdir_p)
   sh <"$src/$dir/$file"
   ;;
  *)
   sh <"$src/$file"
   ;;
  esac
  ;;
 esac
done
if test -f "$src/config_h.SH"; then
 if test ! -f config.h; then
 : oops, they left it out of MANIFEST, probably, so do it anyway.
 . "$src/config_h.SH"
 fi
fi
EOS

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Extract.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: package.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0
 netwide release.
?RCS:
?MAKE:package spackage: Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?X: dist-4 has defined PACKAGE: here, which clashes with perly.h
?X:  as package is a reserved keyword in perl
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | tr '[:upper:]' '[:lower:]'
 2>/dev/null`" in
ABYZ-abyz) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/package.U

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

```
?RCS: $Id: rcs_branch.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rcs_branch.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rcs_branch: Myread contains Loc
?MAKE: -pick add $@ %<
?S:rcs_branch:
?S: This variable will hold "true" if rcs can take the -b<revision>
?S: option, which can make Life Easier on those folks who like to run
?S: rcsdiff manually.
?S:.
?T:xxx
: Tra la la la la
echo " "
echo "Checking to see if RCS understands the -b switch..." >&4
xxx=`./loc
 rcs " $pth`
case "$xxx" in
")
 rcs_branch=false
 echo "Oh.  You don't seem to have RCS here."
 ;;
*)
 rcs > rcsbranch.out 2>&1
 if $contains 'b\[rev\]' rcsbranch.out  >/dev/null 2>&1 ; then
  rcs_branch=true
  echo "Nice!  Your RCS is spiffy!"
 else
  rcs_branch=false
 echo "Well, at least you have RCS.  You know, a newer version is available."
 fi
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/rcs_branch.U

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

```
?RCS: $Id: vendorman1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman1dir vendorman1direxp installvendorman1dir: man1dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman1dir:
?S: This variable contains the name of the directory for man1
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman1direxp:
?S: This variable is the ~name expanded version of vendorman1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman1dir="
?S:installvendorman1dir:
?S: This variable is really the same as vendorman1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman1dir
: Set the vendorman1dir variables
case "$vendorprefix" in
") vendorman1dir="
 vendorman1direxp="
 ;;
*) : determine where vendor-supplied manual pages go.
```

```
 case "$vendorman1dir" in
 '') dflt=`echo "$man1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman1dir ;;
 esac
 case "$dflt" in
 '|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname for
 the vendor-supplied manual section 1 pages?'
 . ./getfile
 vendorman1dir="$ans"
 vendorman1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman1dir" = "X" && vendorman1dir=' '
prefixvar=vendorman1dir
. ./installprefix

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorman1dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Myinit.U,v 3.0 1993/08/18 12:05:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before any Configure switch processing.
?X:
?MAKE:Myinit
 libswanted: Init
?MAKE: -pick add $@ %<
```

```
?S:libswanted:
?S: This variable holds a list of all the libraries we want to
?S: search.  The order is chosen to pick up the c library
?S: ahead of ucb or bsd libraries for SVR4.
?S:.
?LINT:extern usevfork glibpth
?LINT:change usevfork glibpth
: List of libraries we want.
?X: Put crypt here, even though I should really fix d_crypt.U to look
?X: for it correctly, including possible shared library versions.
: If anyone needs extra -lxxx, put those in a hint file.
libswanted="cl pthread socket bind inet ndbm gdbm dbm db malloc dl ld"
libswanted="$libswanted sun m crypt sec util c cposix posix ucb bsd BSD"
: We probably want to search /usr/shlib before most other libraries.
: This is only used by the lib/ExtUtils/MakeMaker.pm routine extliblist.
glibpth=`echo " $glibpth " | sed -e 's! /usr/shlib ! !'`
glibpth="/usr/shlib $glibpth"
: Do not use vfork unless overridden by a hint file.
usevfork=false

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Myinit.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Finish.U,v $
?RCS: Revision 3.0.1.6  1995/02/15  14:09:30  ram
?RCS: patch51: now clearer about how to edit config.sh at the prompt (WED)
?RCS:
?RCS: Revision 3.0.1.5  1994/10/29  15:53:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:19:37  ram
?RCS: patch23: added blank lines around 'End of Configure'
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:46:09  ram
?RCS: patch12: replaced Config_h by Magic_h in the dependency line
?RCS:
?RCS:
```

```
 Revision 3.0.1.2  1993/09/13  15:45:26  ram
?RCS: patch10: fixed shell evaluation w/o shell escape while in silent mode
?RCS:
?RCS: Revision 3.0.1.1  1993/08/30  08:55:59  ram
?RCS: patch8: prevents myread from blocking on empty answers, exceptionally
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit is the very last one in the Configure script.  It runs all the
?X: SH files, which among other things produce config.h and (usually) Makefile.
?X: It offers to do a make depend if the Makefile contains that target.
?X:
?MAKE:Finish: Chk_MANI Extract Myread Oldsym Magic_h cat rm contains \
 test package make
?MAKE: -pick add $@ %<
?F:!config.sh
?T:pwd
: Finish up by extracting the .SH files
case "$alldone" in
exit)
?X: They supplied the -E switch
 echo "Stopping at your request, leaving temporary files around."
 exit 0
 ;;
cont)
 ;;
")
 dflt="
 nostick=true
 $cat <<EOM

If you'd like to make any changes to the config.sh
 file before I begin
to configure things, do it as a shell escape now (e.g. !vi config.sh).

EOM
 rp="Press return or use a shell escape to edit config.sh:"
 . UU/myread
 nostick="
 case "$ans" in
 ") ;;
 *) : in case they cannot read
  sh 1>&4 -c "$ans";;
 esac
 ;;
esac
```

```
: if this fails, just run all the .SH files by hand
. ./config.sh

?X:
?X: Turn silent mode off from now on (we want a verbose file extraction).
?X: This means we have to explicitly test for '$silent' from now on to
?X: strip off any verbose messages.
?X:
echo " "
exec 1>&4
pwd=`pwd`
. ./UU/extract
cd "$pwd"

if $contains '^depend:' [Mm]akefile >/dev/null 2>&1; then
 dflt=y
 case "$silent" in
 true) ;;
 *)
  $cat <<EOM

Now you need to generate make dependencies by running "$make depend".
You might prefer to run it in background: "$make depend > makedepend.out &"
It can take a while, so you might not want to run it right now.

EOM
  ;;
 esac
 rp="Run $make depend now?"
 . UU/myread
 case "$ans" in
 y*)
  $make depend
 && echo "Now you must run '$make'."
  ;;
 *)
  echo "You must run '$make depend' then '$make'."
  ;;
 esac
elif test -f [Mm]akefile; then
 echo " "
 echo "Now you must run a $make."
else
 echo "Configure done."
fi

if $test -f Policy.sh; then
```

```
  $cat <<EOM

If you compile $package on a different machine or from a different object
directory, copy the Policy.sh file from this object directory to the
new one before you run Configure -- this will help you with most of
the policy defaults.

EOM
fi
if $test -f UU/config.msg; then
  echo "Hmm.  I also noted the following information while running:"
  echo " "
  $cat UU/config.msg >&4
fi
?X:
?X: kit*isdone files are left over by shell archives built using the makedist
?X: script which comes from dist, while ark*isdone files are left over by
?X: the cshar archive maker.
?X:
$rm -f kit*isdone ark*isdone
$rm -rf UU

: End of Configure

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Finish.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
```

```
?MAKE:End: $W
?MAKE: -pick add $@ %<
?LINT:use $W
: end of configuration
 questions
echo " "
echo "End of configuration questions."
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/End.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libdbm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:56:57  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libdbm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libdbm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the dbm library routines.  If there is no dbm or ndbm
?S: library, it is null.
?S:.
?T:xxx
:
 see if we should include -ldbm
echo " "
if $test -r /usr/lib/libndbm$_a || $test -r /usr/local/lib/libndbm$_a ; then
 echo "-lndbm found." >&4
 libdbm='-lndbm'
elif $test -r /usr/lib/libdbm$_a || $test -r /usr/local/lib/libdbm$_a ; then
 echo "-ldbm found." >&4
 libdbm='-ldbm'
else
 xxx=`./loc libdbm$_a x $libpth`
```

```
 case "$xxx" in
 x)
  echo "No dbm library found." >&4
  libdbm="
  ;;
 *)
  echo "DBM library found in $xxx." >&4
  libdbm="$xxx"
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Whoa.U,v 3.0.1.2 1997/02/28 15:21:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable
 is noticed.
?X:
?X: To use this unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
```

```
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was td tu hintfile
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
case "$hint" in
  recommended)
 case "$hintfile" in
 ") echo "The $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 *) echo "Hmm.  Based on the hints in hints/$hintfile.sh, " >&4
  echo "the $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 esac
 ;;
  *) echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    The $hint value for \$$var on this machine was
 \"$was\"!" >&4
 ;;
esac
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Whoa.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Prefixup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixup.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:30:40  ram
```

```
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt; eval $prefixup" to set $dflt to be $prefix/dir
?X: instead of $prefixexp/dir, in case portability was involved somehow
?X: and $prefix uses ~name expansion.
?X:
?MAKE:Prefixup: prefix prefixexp
?MAKE: -pick add $@ %<
?LINT:define prefixup
?S:prefixup:
?S: This shell variable is used internally by Configure to reset
?S: the leading
 installation prefix correctly when $prefix uses
?S: ~name expansion.
?S:  set dflt
?S:  eval $prefixup
?S: That will set $dflt to $prefix/dir if it was $prefixexp/dir and
?S: $prefix differs from $prefixexp.
?S:.
?V:prefixup
: set the prefixup variable, to restore leading tilda escape
prefixup='case "$prefixexp" in
"$prefix") ;;
*) eval "$1=\`echo \$$1 | sed \"s,^$prefixexp,$prefix,\"\`";;
esac'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Prefixup.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic License,
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_vprintf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/gidsign.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_socket.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_netinettcp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mmap.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_dosuid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/nblock_io.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_getservprotos.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_dosuid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_voidsig.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ccflags.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_castneg.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_endpent.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/mallocsrc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_flexfnam.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/stdchar.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Signal.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_eofpipe.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sanemcmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/intsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_gai_strerror.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/orderlib.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorscript.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_static_inline.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lseektype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_drand48proto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Cppsym.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_mbrtowc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/randfunc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Guess.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_attribut.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_inttypes.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/cppstdin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_pthread_attr_ss.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sunscanf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_shmat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ssizetype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_mbrlen.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_dlopen.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_db.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/sig_name.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_nanosleep.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/doublesize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_access.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_times.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/myhostname.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/archlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_gethname.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/uidtype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Tr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/i_time.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isblank.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/inc_version_list.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ebcdic.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Guess.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/i_pthread.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_dirfd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_keepsig.U

*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_flockproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_fd_set.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_sigaction.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mallocsrc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_portable.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_NOFILE.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/d_times.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/prefix.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_socklen_t.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_usleepproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/errnolist.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sig_name.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_flexfnam.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_dladdr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/doublesize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_stdstdio.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_snprintf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_htonl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cppstdin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/usesocks.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_casti32.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_varhdr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_isascii.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_statblks.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ustat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_ndbm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gethbynm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_pwd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Findhdr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/bin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_inttypes.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysmman.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/a_dvisory/intsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_endsent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/st_ino_def.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_getpagsz.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/errnolist.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/fpostype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_setpgrp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/otherlibdirs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ldbl_dig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/abortsig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_mallocmalloc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/bin.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_mmap.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setpgrp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getpwent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/uidsize.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/stdio_streams.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/bitpbyte.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_endnent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_c99_variadic.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/gidsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_const.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/models.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/byteorder.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorarch.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_lseekproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_shm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/charorder.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_statblks.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_poll.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_casti32.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_gethbynm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/ccflags.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_backtrace.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_attribut.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_stdstdio.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/prefix.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_closedir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getnent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/bitpbyte.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/instubperl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strerror.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/sockopt.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sem.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/ssizetype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_pwd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/floatsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_snprintf_l.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/sh.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/privlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/usrinc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/myhostname.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_open3.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/archname.U
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*

/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sbrksmart.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Inhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inhdr.U,v $
?RCS: Revision 3.0.1.2 1995/05/12 12:01:31 ram
?RCS: patch54: deleted tabs that caused some /bin/sh to core dump (ADO)
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 15:55:01 ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:01 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks wether a set of header files exists or not.
?X: If the first header is not
 found, the function tries to locate
?X: the next header, and so on, until one is found or there is no
?X: more header in the list.
?X:
?X: To use it, say:
?X: set header i_header [header2 i_header2 ...]
?X: eval $inhdr
?X:
?MAKE:Inhdr: test Findhdr Whoa
?MAKE: -pick add $@ %<
?LINT:define inhdr
?V:inhdr
?S:inhdr:
?S: This shell variable is used internally by Configure to check
?S: wether a set of headers exist or not. A typical use is:
?S: set header i_header [header2 i_header2 ...]
?S: eval $inhdr
?S: That will print a message, saying wether header was found or not
?S: and set i_header* accordingly. If the first header is not found,
?S: we try the next one, until the list is empty or one is found.
?S:.
?T:xxx xxf var td xxnf tu yyy instead was cont

```
: define an alternate in-header-list? function
inhdr='echo " "; td=$define; tu=$undef; yyy=$@;
cont=true; xxf="echo \"<\$1> found.\" >&4";
case $# in 2) xxnf="echo \"<\$1> NOT found.\" >&4";;
*) xxnf="echo \"<\$1> NOT found, ...\" >&4";;
esac;
case
 $# in 4) instead=instead;; *) instead="at last";; esac;
while $test "$cont"; do
 xxx=`./findhdr $1`
 var=$2; eval "was=\$$2";
 if $test "$xxx" && $test -r "$xxx";
 then eval $xxf;
?X: Next line shifted left 1 tabstop to avoid sh core dump on MachTen 2.1.1.
 eval "case \"\$$var\" in $undef) . ./whoa; esac"; eval "$var=\$td";
  cont="";
 else eval $xxnf;
?X: Likewise, the next line has been shifted left 1 tabstop -- ADO, 08/03/95
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu"; fi;
 set $yyy; shift; shift; yyy=$@;
 case $# in 0) cont="";;
 2) xxf="echo \"but I found <\$1> $instead.\" >&4";
  xxnf="echo \"and I did not find <\$1> either.\" >&4";;
 *) xxf="echo \"but I found <\$1\> instead.\" >&4";
  xxnf="echo \"there is no <\$1>, ...\" >&4";;
 esac;
done;
?X: Remaining values are set to 'undef'
while $test "$yyy";
do set $yyy; var=$2; eval "was=\$$2";
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu";
 set $yyy; shift; shift; yyy=$@;
done'

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Inhdr.U
No license file was found, but licenses were detected in source scan.

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?RCS: of the source tree for dist 3.0.
```

?X:
?X: Useless unit dropped. Use randfunc instead.
?X:
?LINT:empty

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/randbits.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: mansrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mansrc.U,v $
?RCS: Revision 3.0.1.9 1997/02/28 16:12:03 ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.8 1995/09/25 09:16:58 ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.7 1995/02/15 14:15:31 ram
?RCS: patch51: was mistakenly duplicating /usr/local/man/man1 (ADO)
?RCS: patch51: added /opt/man/man1 to the lookpath (ADO)
?RCS:
?RCS: Revision
 3.0.1.6 1995/01/30 14:39:34 ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.5 1995/01/11 15:32:25 ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.4 1994/08/29 16:30:38 ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.3 1994/05/06 15:11:10 ram
?RCS: patch23: added lint hint, assuring that nroff is used
?RCS:
?RCS: Revision 3.0.1.2 1994/01/24 14:14:39 ram
?RCS: patch16: now uses _nroff in case user asked for portability
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:09:31 ram
?RCS: patch10: allows for L1 man page extension (WAD)

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mansrc mansrcexp manext installmansrc: afs cat nroff Loc Oldconfig \
 sysman spackage test Getfile Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:mansrc:
?S: This variable
 contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:mansrcexp:
?S: This variable is the same as the mansrc variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installmansrc:
?S: This variable is really the same as mansrcexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:manext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See mansrc.
?S:.
?T:lookpath
: determine where manual pages go
set mansrc mansrc none
eval $prefixit
$cat <<EOM

$spackage has manual
 pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$mansrc" in
 ") mansrc="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$mansrc" in
```

```
")
 lookpath="$prefixexp/share/man/man1 $prefixexp/man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/man1 /opt/man/man1 /usr/man/manl"
 lookpath="$lookpath /usr/share/man/man1 /usr/local/share/man/man1"
 lookpath="$lookpath /usr/man/local/man1 /usr/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 lookpath="$lookpath /usr/man/man.L"
 mansrc=`./loc . $prefixexp/man/man1 $lookpath`
 if $test -d "$mansrc"; then
  dflt="$mansrc"
 else
  dflt="$sysman"
 fi
 set dflt
 eval $prefixup
 ;;
' ') dflt=none;;
*)  dflt="$mansrc"
 ;;
esac
echo " "
fn=dn~
rp='Where do the manual pages (source) go?'
. ./getfile
if test
 "X$mansrcexp" != "X$ansexp"; then
 installmansrc="
fi
mansrc="$ans"
mansrcexp="$ansexp"
case "$mansrc" in
") mansrc=' '
 installmansrc="";;
esac
if $afs && $test "$mansrc"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmansrc" in
 ") dflt=`echo $mansrcexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmansrc";;
 esac
 fn=de~
```

```
 rp='Where will man pages be installed?'
 . ./getfile
 installmansrc="$ans"
else
 installmansrc="$mansrcexp"
fi

case "$mansrc" in
' ') manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mansrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel: package baserev test rsrc
?MAKE: -pick add $@ %<
?T:Revision
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S:.
: get the patchlevel
```

```
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r
 $rsrc/patchlevel.h;then
 patchlevel=`awk \
  '/^#[  ]*define[  ][  ]*PATCHLEVEL/ {print $3}' \
  < $rsrc/patchlevel.h`
else
 patchlevel=0
fi
echo "(You have $package $baserev PL$patchlevel.)"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/patchlevel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Oldsym.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and PERL_CONFIG_SH,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint
 file or a previous config.sh file.
?X:
?MAKE:Oldsym: Config_sh cat test hint src sed sort uniq perl_patchlevel
?MAKE: -pick add $@ %<
?T:PERL_CONFIG_SH PERL_PATCHLEVEL sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define[  ]+PERL_/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "PERL_PATCHLEVEL='$perl_patchlevel'" >>config.sh
```

```
echo "PERL_CONFIG_SH=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh
 |\
  $sort | $uniq -u >UU/oldsyms
 set X `$cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  $cat <<EOM
Hmm...You had some extra variables I don't know about...I'll try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `$cat UU/oldsyms`; do
   echo "    Propagating $hint variable '"'$sym...'"
   eval 'tmp="'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\"'\"'/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Oldsym.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
'') full_ar=$ar ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Loc_ar.U
No license file was found, but licenses were detected in source scan.

```
# $Id: makedir.sh,v 3.0.1.1 1994/01/24 14:00:08 ram Exp ram $
#
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#  of the source tree for dist 4.0.
#
# Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedir.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:08  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:38  ram
# Baseline for dist 3.0 netwide release.
#
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/makedir.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cf_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cf_name.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:29:36  ram
?RCS: patch23: fixed user name computation from /etc/passwd in bsd systems
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:05:11  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:+cf_name: cf_by passcat Filexp nametype cat test
?MAKE: -pick add $@ %<
?S:cf_name:
?S: Full name of the person who ran the Configure script and
 answered the
?S: questions. This can be used by units that require the user's full name.
?S: This variable is for internal use only.
?S:.
?T:xxx fn NAME
: figure out their full name
case "$NAME" in
") case "$nametype" in
 other)
  fn=`./filexp ~/.fullname`
  xxx=usg
  $test -f $fn && xxx=other
  ;;
 *)
  xxx="$nametype"
  ;;
 esac

 case "$xxx" in
 bsd)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/,.*//'`
  ;;
   usg)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/[^-]*-\(.*\)(.*)/\1/'`
```

```
  ;;
 *)
  cf_name=`$cat $fn`
  ;;
 esac
 ;;
*)
 cf_name="$NAME"
 ;;
esac
?X:
?X: In the original unit, Graham asked for the user name, in case the above
?X: code was unable to figure it out correctly. Since now cf_name has been
?X: made an internal variable only (i.e. it is not saved in config.sh), letting
?X: the user override the computed default each time would be a pain.
?X:
 Therefore, I have decided to trust the above code to get it right, and for
?X: those rare cases where it will fail, too bad :-) --RAM.
?X:
echo " "
echo "Pleased to meet you, $cf_name."
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cf_name.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:42  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/rename.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myread.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myread.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  15:05:39  ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:14:22  ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4  1994/10/31  09:48:04  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29
  15:56:20  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:59  ram
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:39:20  ram
?RCS: patch7: now sticks to the question when no default and empty answer
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a read.  It allows for shell escapes, default assignment and
?X: parameter evaluation.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer. The question will be printed by the script itself.
?X: Neither $rp nor $dflt is altered by the script.
?X:
?X: The myread script will stick to the question if no default is proposed
?X: and the user answer is empty, which prevents mistakes. However, at the
?X: end of Configure, there is an exception
 to this rule (Finish.U) where we
?X: set nostick to a non-empty value to allow the Return key to play its role!
?X:
```

```
?MAKE:Myread: Options startsh n c trnl
?MAKE: -pick add $@ %<
?V:ans:dflt rp nostick
?F:./myread
?T:COLUMNS xxxm rp dflt answ aok myecho
?LINT:change fastread
?X: Some shells (Ultrix) do not understand ${COLUMNS:-80}, sigh!
: compute the number of columns on the terminal for proper question formatting
case "$COLUMNS" in
'') COLUMNS='80';;
esac

: set up the echo used in my read
?X:
?X: This variable is intended to be eval'ed. It will echo the two
?X: variables $rp and $dflt (provided this latter has a non null value).
?X: It is mainly used by the myread script to echo the questions.
?X:
?X: The $n and $c below are substituted before Loc does its silly echo check
?X: so don't put a $ on the echo below so we get builtin, even if $echo is
?X: pointing to /bin/echo.
?X:
myecho="case \"\$xxxm\" in
'') echo $n \"\$rp $c\" >&4;;
*) case \"\$rp\" in
 '') echo $n \"[\$xxxm] $c\";;
 *)
  if
 test \`echo \"\$rp [\$xxxm]  \" | wc -c\` -ge $COLUMNS; then
   echo \"\$rp\" >&4
   echo $n \"[\$xxxm] $c\" >&4
  else
   echo $n \"\$rp [\$xxxm] $c\" >&4
  fi
  ;;
 esac;;
esac"

: now set up to do reads with possible shell escape and default assignment
cat <<EOSC >myread
$startsh
?X:
?X: Save value of default -- do not alter original in case of eval
?X:
xxxm=\$dflt
$myecho
?X:
?X: If there is no default, then stop, regardless of the value in fastread.
```

```
?X: In silent mode, no new-line is to be echoed if the question is empty,
?X: since this is used to wait for the "return" key.
?X:
ans='!'
case "\$fastread" in
yes) case "\$dflt" in
 '') ;;
 *) ans='';
  case "\$silent-\$rp" in
  true-) ;;
  *) echo " " >&4;;
  esac;;
 esac;;
*) case "\$silent" in
 true) case "\$rp" in
  '') ans='';;
  esac;;
 esac;;
esac
while expr "X\$ans" : "X!" >/dev/null; do
 read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER.
 Variables must be evaluated now.
?X: Typing '\$HOME' won't currently prevent from substitution -- use '\\$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
 set x \$xxxm
 shift
 aok=''; eval "ans=\\"\$answ\\"" && aok=y
 case  "\$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
 "!")
  sh 1>&4
  echo " "
  $myecho
  ;;
 !*)
  set x \`expr "X\$ans" : "X!\(.*\)\$"\`
  shift
```

```
 sh 1>&4 -c "\$*"
 echo " "
 $myecho
 ;;
"\$ans")
 case "\$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired
 behaviour compatible with our general scheme.
?X:
 \\&*)
  set x \`expr "X\$ans" : "X&\(.*\)\$"\`
  shift
  case "\$1" in
  -d)
   fastread=yes
   echo "(OK, I'll run with -d after this question.)" >&4
   ;;
  -*)
   echo "*** Sorry, \$1 not supported yet." >&4
   ;;
  esac
  $myecho
  ans=!
  ;;
 esac;;
*)
 case "\$aok" in
 y)
  echo "*** Substitution done -- please confirm."
  xxxm="\$ans"
  ans=\`echo $n "\$ans$c" | tr '$trnl' ' '\`
  xxxm="\$ans"
  ans=!
  ;;
 *)
  echo "*** Error -- try again."
  ans=!
  ;;
 esac
 $myecho
 ;;
esac
?X: Stick in myread if no default answer and nothing was answered
 case "\$ans\$xxxm\$nostick" in
```

")
 ans=!
 $myecho
 ;;
esac
done
case "\$ans" in
") ans="\$xxxm";;
esac
EOSC

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Myread.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasstruct string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X: set d_statblocks stat i_sysstat sys/stat.h
?X: eval $hasstruct
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X: $i_sysbar sys/bar.h
?X: $i_syszot sys/zot.h
?X: $i_zappa zappa.h"
?X: set d_statblocks stat $hdrs
?X: eval $hasstruct
?X:
?MAKE:Hasstruct: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct
?V:hasstruct
: Define hasstruct macro for Configure internal use
hasstruct='varname=$1; struct=$2; shift;
 shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;

```
  shift 2;
done > try.c;
echo "int main () { struct $struct foo; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Hasstruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lib libexp: Getfile
 Loc Oldconfig Prefixit Prefixup prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:lib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public library files for the package in question.  It is most
?S: often a local directory such as /usr/local/lib. Programs using this
```

```
?S: variable must be prepared to deal with filename expansion.
?S:.
?S:libexp:
?S: This variable is the same as the lib variable, but is filename expanded
?S: at configuration time, for convenient use in your makefiles.
?S:.
: determine where public libraries go
set lib lib
eval $prefixit
case "$lib" in
")
 dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$lib";;
esac
echo " "
fn=d~
rp='Where do you want to put the public libraries?'
. ./getfile
lib="$ans"
libexp="$ansexp"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myread.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  15:05:39  ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:14:22  ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4  1994/10/31  09:48:04  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
```

```
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:56:20  ram
?RCS: patch36: added ?F:
 line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:59  ram
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:39:20  ram
?RCS: patch7: now sticks to the question when no default and empty answer
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a read.  It allows for shell escapes, default assignment and
?X: parameter evaluation.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer. The question will be printed by the script itself.
?X: Neither $rp nor $dflt is altered by the script.
?X:
?X: The myread script will stick to the question if no default is proposed
?X: and the user answer is empty, which prevents mistakes. However, at the
?X: end of Configure, there is an exception to this rule (Finish.U) where we
?X: set
 nostick to a non-empty value to allow the Return key to play its role!
?X:
?MAKE:Myread: Options startsh n c trnl
?MAKE: -pick add $@ %<
?V:ans:dflt rp nostick
?F:./myread
?T:COLUMNS xxxm rp dflt answ aok myecho counter
?LINT:change fastread
?X: Some shells (Ultrix) do not understand ${COLUMNS:-80}, sigh!
: compute the number of columns on the terminal for proper question formatting
case "$COLUMNS" in
") COLUMNS='80';;
esac

: set up the echo used in my read
?X:
?X: This variable is intended to be eval'ed. It will echo the two
?X: variables $rp and $dflt (provided this latter has a non null value).
?X: It is mainly used by the myread script to echo the questions.
?X:
?X: The $n and $c below are substituted before Loc does its silly echo check
```

```
?X: so don't put a $ on the echo below so we get builtin, even if $echo is
?X: pointing to /bin/echo.
?X:
myecho="case \"\$xxxm\" in
") echo $n \"\$rp $c\" >&4;;
*) case \"\$rp\" in
 ") echo $n \"[\$xxxm] $c\";;
 *)
  if test \`echo \"\$rp [\$xxxm]
  \" | wc -c\` -ge $COLUMNS; then
   echo \"\$rp\" >&4
   echo $n \"[\$xxxm] $c\" >&4
  else
   echo $n \"\$rp [\$xxxm] $c\" >&4
  fi
  ;;
 esac;;
esac"

: now set up to do reads with possible shell escape and default assignment
cat <<EOSC >myread
$startsh
?X:
?X: Save value of default -- do not alter original in case of eval
?X:
xxxm=\$dflt
$myecho
?X:
?X: If there is no default, then stop, regardless of the value in fastread.
?X: In silent mode, no new-line is to be echoed if the question is empty,
?X: since this is used to wait for the "return" key.
?X:
ans='!'
counter=42
case "\$fastread" in
yes) case "\$dflt" in
 ") ;;
 *) ans='';
  case "\$silent-\$rp" in
  true-) ;;
  *) echo " " >&4;;
  esac;;
 esac;;
*) case "\$silent" in
 true) case "\$rp" in
  ") ans='';;
  esac;;
 esac;;
```

```
esac
while expr "X\$ans" : "X!" >/dev/null; do
 read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER. Variables must be evaluated
 now.
?X: Typing '\$HOME' won't currently prevent from substitution -- use '\\$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
 set x \$xxxm
 shift
 aok=''; eval "ans=\\"\$answ\\"" && aok=y
 case  "\$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
 "!")
  sh 1>&4
  echo " "
  $myecho
  ;;
 !*)
  set x \`expr "X\$ans" : "X!\(.*\)\$"\`
  shift
  sh 1>&4 -c "\$*"
  echo " "
  $myecho
  ;;
 "\$ans")
  case "\$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired behaviour compatible with
 our general scheme.
?X:
  \\&*)
   set x \`expr "X\$ans" : "X&\(.*\)\$"\`
   shift
   case "\$1" in
   -d)
```

```
   fastread=yes
   echo "(OK, I'll run with -d after this question.)" >&4
   ;;
  -*)
   echo "*** Sorry, \$1 not supported yet." >&4
   ;;
  esac
  $myecho
  ans=!
  ;;
 esac;;
*)
 case "\$aok" in
 y)
  echo "*** Substitution done -- please confirm."
  xxxm="\$ans"
  ans=\`echo $n "\$ans$c" | tr '$trnl' ' '\`
  xxxm="\$ans"
  ans=!
  ;;
 *)
  echo "*** Error -- try again."
  ans=!
  ;;
 esac
 $myecho
 ;;
esac
?X: Stick in myread if no default answer and nothing was answered
 case "\$ans\$xxxm\$nostick" in
 '')
  ans=!
  $myecho
  ;;
 esac
 counter=\`echo \$counter | awk '{ print --\$0 }'\`
 if [ \$counter = 0 ]; then
  echo >&4
  echo >&4 Too many attempts asking the same question.  Giving up.
  exit 1
 fi
done
case "\$ans" in
'') ans="\$xxxm";;
esac
EOSC

Found in path(s):
```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Myread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usenm.U,v 3.0.1.1 1997/02/28 16:26:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig myuname grep \
 nm d_gnulibc osname egrep rsrc
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending
 whether the
?S: nm extraction is wanted or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
```

```
?X:
?X: Don't bother if we're
 using GNU libc -- skimo
?LINT:extern PASE
case "$usenm" in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a "X$PASE" != "Xdefine" -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ") dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
  if $test $dflt -gt 20; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the 'nm' extraction part and to compile a small
test
```

```
 program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

You probably shouldn't let me use 'nm' if you are using the GNU C Library.

EOM
rp="Shall I use $nm to extract C symbols from the libraries?"
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
'') if $test -f /mach_boot; then
  nm_opt='' # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p' # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p' # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p' # 64-bit Irix
 else
  nm_opt=''
 fi;;
esac

: nm options which may be necessary for shared libraries but illegal
: for archive
 libraries.  Thank you, Linux.
case "$nm_so_opt" in
'') case "$myuname" in
 *linux*|gnu*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
```

```
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS:     c) the GNU General Public License as published by the Free
?RCS:     Software Foundation; either version 1, or (at your option) any
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_builtin_overflow.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libflex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libflex.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:57:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:07:02  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:25  ram
?RCS: patch16: un-obsoleted this unit to allow smooth lex/flex compilations
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:59  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:libflex: Loc lex libpth _a
?MAKE: -pick add $@ %<
?S:libflex:
?S: This variable contains the argument to pass to the loader in order
?S: to get the flex/lex library routines.  If there is no flex or flex
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -lfl
echo " "
```

```
case "$lex" in
*flex)
 xxx=`./loc libfl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No flex library found." >&4
  libflex=''
  ;;
 *)
  echo "flex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*lex)
 xxx=`./loc libl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No lex library found." >&4
  libflex=''
  ;;
 *)
  echo "lex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*)
echo "You don't seem to have lex or flex, so I won't look for libraries." >&4
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libflex.U
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.sh,v 3.0.1.1 1994/01/24 14:00:00 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
```

$Log: errnolist.sh,v $
Revision 3.0.1.1 1994/01/24 14:00:00 ram
patch16: changed top ln-style config.sh lookup into test-style one
#
Revision 3.0 1993/08/18 12:04:36 ram
Baseline for dist 3.0 netwide release.
#

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/errnolist.SH
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7 1997/02/28 15:08:15 ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6 1995/09/25 09:14:46 ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5 1995/05/12 12:04:52 ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4 1995/01/30 14:27:52 ram
?RCS: patch49: this unit now exports file optdef.sh,
 not a variable
?RCS:
?RCS: Revision 3.0.1.3 1995/01/11 15:19:00 ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2 1994/10/29 15:58:06 ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 06:55:44 ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options: startsh
?MAKE: -pick wipe $@ %<
?V:reuseval
 alldone error realsilent silent extractsh fastread \
 override knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X: to worry too much.
cat > cmdline.opt
 <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp="
args_sep="
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '"'"'
 cat <<EOC | sed -e "s/'/'"'"'"'"'"'"'/g" > cmdl.opt
$arg
```

```
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c] = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str,
 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
```

```
  next;
 }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prependend to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
override=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
```

```
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1." >&2
   error=true
  fi
  cd UU
  shift;;
 -h)
 shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift; override=true;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
  case "$1" in
  *=)
   echo "$me: use '-U symbol=', not '-D symbol='." >&2
   echo "$me: ignoring -D $1" >&2
   ;;
  *=*) echo "$1" | \
    sed -e "s/'/'\"'\"'/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
  *) echo "$1='define'" >> optdef.sh;;
  esac
  shift
  ;;
 -U)
  shift
  case "$1" in
  *=) echo "$1" >> optdef.sh;;
  *=*)
   echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
   echo "$me: ignoring -U $1" >&2
```

```
 ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
   shift
   xxx=''
   yyy="$1"
   zzz=''
   uuu=undef
   case "$yyy" in
        *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
            case "$zzz" in
            *:*) zzz='' ;;
            *)   xxx=append
                zzz=" "`echo
"$yyy"|sed 's!^[^=]*=!!'`
                yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
            esac
            ;;
        esac
        case "$xxx" in
        '')  case "$yyy" in
            *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
            *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
            esac
            ;;
        esac
   case "$xxx" in
   append)
 echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
   clear)
 echo "$yyy=''   >> posthint.sh ;;
   define)
      case "$zzz" in
 '') zzz=define ;;
 esac
 echo "$yyy='$zzz'"  >> posthint.sh ;;
   eval)
 echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
   prepend)
 echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
   undef)
```

```
        case "$zzz" in
 ")
 zzz="$uuu" ;;
  esac
  echo "$yyy=$zzz"  >> posthint.sh ;;
         *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
     esac
     shift
     ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
     exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
            [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
      -D symbol         symbol gets the value 'define'
      -D symbol=value
   symbol gets the value 'value'
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : let -D and -U override definitions from loaded configuration file.
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
      -U symbol    symbol gets the value 'undef'
      -U symbol=   symbol gets completely empty
 -A : manipulate symbol after the platform specific hints have been applied:
  -A symbol=value  append " "value to symbol
  -A append:symbol=value  append value to symbol
  -A define:symbol=value  define symbol to have value
      -A clear:symbol  define symbol to be "
  -A define:symbol  define symbol to be 'define'
  -A eval:symbol=value  define symbol to be eval of value
  -A prepend:symbol=value prepend value to symbol
  -A undef:symbol  define symbol to be 'undef'
```

```
  -A undef:symbol=  define symbol to be "
 -V : print version number and exit (with
 a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true)
 exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
```

touch posthint.sh

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Options.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
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*  as specified in the README file that comes with the distribution.
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*  of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:40  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/getopt.C
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```
?RCS: $Id: cc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cc.U,v $
?RCS: Revision 3.0.1.4  1995/05/12  12:06:47  ram
?RCS: patch54: may now abort Configure when cc does not work
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:20:11  ram
?RCS: patch45: changed gcc checking message to a more explicit one (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:04:29  ram
?RCS: patch36: detect gcc even when not called as 'gcc' (ADO)
```

```
?RCS: patch36: simplified gcc version checking (ADO)
?RCS: patch36: added ?F: line for metalint
 file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:26:06  ram
?RCS: patch23: added support for gcc version (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cc: Myread Oldconfig Checkcc test
?MAKE: -pick add $@ %<
?S:cc:
?S: This variable holds the name of a command to execute a C compiler which
?S: can resolve multiple global references that happen to have the same
?S: name.  Usual values are 'cc' and 'gcc'.
?S: Fervent ANSI compilers may be called 'c89'.  AIX has xlc.
?S:.
?F:!cc.cbu
?D:cc='cc'
: Determine the C compiler to be used
echo " "
case "$cc" in
") dflt=cc;;
*) dflt="$cc";;
esac
rp="Use which C compiler?"
. ./myread
cc="$ans"

: See whether they have no cc but they do have gcc
. ./trygcc
?X: Look for a hint-file generated 'call-back-unit'.  Now that the
?X: user has specified the compiler, we may need to set or change some
?X: other defaults.
if $test -f cc.cbu; then
   . ./cc.cbu
fi
. ./checkcc

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Csym.U,v 3.0.1.4 1995/07/25 13:36:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision
 3.0.1.1  1993/08/25  14:00:05  ram
?RCS: patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym mistrustnm extern_C: Options contains libc libs runnm test \
 +cc +optimize +ccflags +ldflags run rm_try _exe d_cplusplus
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?LINT:extern mistrustnm
?LINT:set mistrustnm
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: whether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?S:extern_C:
?S: ANSI C
 requires 'extern' where C++ requires 'extern "C"'. This
?S: variable can be used in Configure to do the right thing.
?S:.
```

```
?S:mistrustnm:
?S: This variable can be used to establish a fallthrough for the cases
?S: where nm fails to find a symbol.  If usenm is false or usenm is true
?S: and mistrustnm is false, this variable has no effect.  If usenm is true
?S: and mistrustnm is "compile", a test program will be compiled to try to
?S: find any symbol that can't be located via nm lookup.  If mistrustnm is
?S: "run", the test program will be run as well as being compiled.
?S:.
?V:csym
?T:tval tx tlook tf tdc
?F:!try
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tdc="";;
-a) tf=libc.tmp; tdc="[]";;
*) tlook="^$1\$"; tf=libc.list; tdc="()";;
esac;
case "$d_cplusplus" in
  $define) extern_C="extern \"C\"" ;;
  *)  extern_C="extern" ;;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx"
 in
yes)
?X:
?X: Put symbol inside a printf to fool optimizing compilers...
?X:
?X: We use 'short' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'short' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lives so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the compile test, in case the 'short'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
 tval=false;
 if $test "$runnm" = true; then
```

```
 if $contains $tlook $tf >/dev/null 2>&1; then
  tval=true;
 elif $test "$mistrustnm"
= compile -o "$mistrustnm" = run; then
  echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
  $cc -o try $optimize $ccflags $ldflags try.c >/dev/null 2>&1 $libs && tval=true;
  $test "$mistrustnm" = run -a -x try && { $run ./try$_exe >/dev/null 2>&1 || tval=false; };
  $rm_try;
 fi;
else
 echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
 $cc -o try $optimize $ccflags $ldflags try.c $libs >/dev/null 2>&1 && tval=true;
 $rm_try;
fi;
;;
*)
case "$tval" in
$define) tval=true;;
*) tval=false;;
esac;
;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/Csym.U
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```
?RCS: $Id: mailer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailer.U,v $
?RCS: Revision 3.0.1.3  1995/01/11  15:32:11  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:10:04  ram
?RCS: patch23: ensure full path value is used for rmail also
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:14:18  ram
```

```
?RCS: patch16: now use _sendmail vars and friends for portability issues
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:10  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:mailer: test cat rmail mail smail sendmail Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:mailer:
?S: This variable contains the full pathname of a reasonable mailer.
?S: By reasonable, we mean some program which can understand internet
?S: addresses or at least forward them to some internet router. This
?S: mailer should be invoked as "mailer [options] recipients <mail".
?S:.
: determine the name of a reasonable mailer
case "$mailer" in
")
 if $test -f "$sendmail"; then
  dflt="$sendmail"
 elif $test -f "$smail"; then
  dflt="$smail"
 elif $test -f "$rmail"; then
  dflt="$rmail"
 elif $test -f /bin/mail; then
  dflt=/bin/mail
 else
  dflt=$mail
 fi
 ;;
*)  dflt="$mailer";;
esac
$cat <<EOM

I need the full pathname of the program used to deliver mail on your system.
A typical answer would be /usr/lib/sendmail or /bin/rmail, but you may choose
any other program, as long as it can be fed from standard input and will
honour any user-supplied headers.

EOM
fn=f
rp='Mail
 transport agent to be used?'
. ./getfile
mailer="$ans"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mailer.U

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

?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:24 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/baserev.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: libnm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnm.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 16:08:26 ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:01 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libnm:

```
?S: This variable contains the argument to pass to the loader in order
?S: to get the new math library routines.  If there is no new math
?S: library, it is null.
?S:.
?T:ans
?O:
 use libswanted='-lnm' instead (see libs.U).
: see if we should include -lnm
echo " "
if $test -r /usr/lib/libnm$_a || $test -r /usr/local/lib/libnm$_a ; then
 echo "New math library found." >&4
 libnm='-lnm'
else
 ans=`./loc libnm$_a x $libpth`
 case "$ans" in
 x)
  echo "No nm library found--the normal math library will have to do." >&4
  libnm=''
  ;;
 *)
  echo "New math library found in $ans." >&4
  libnm="$ans"
  ;;
 esac
fi

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libnm.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit allows the duplication of the source tree to the current
?X: directory via symbolic links.  This must be requested explicitly
?X: by them issuing a -Dmksymlinks on the command line.
?X:
?MAKE:Mksymlinks: Mkdirp lns issymlink src rsrc pkgsrc
```

```
?MAKE: -pick add $@ %<
?F:!UU
?T: dir filename tmppwd filelist
?LINT:extern mksymlinks
@if {test -f ../MANIFEST}
: Duplicate the tree with symbolic links if -Dmksymlinks was supplied
case "$mksymlinks"
 in
$define|true|[yY]*)
 echo " "
 case "$src" in
 "|'.') echo "Cannot create symlinks in the original directory." >&4
  exit 1
  ;;
 *) case "$lns:$issymlink" in
  *"ln"*" -s:"*"test -"?)
   echo "Creating the symbolic links..." >&4
   echo "(First creating the subdirectories...)" >&4
   cd ..
   awk '{print $1}' $src/MANIFEST | grep / | sed 's:/[^/]*$::' | \
    sort -u | while true
   do
    read dir
    test -z "$dir" && break
    ./UU/mkdirp $dir 2>/dev/null
    if test -d $dir; then
     : ok
    else
     echo "Failed to create '$dir'.  Aborting." >&4
     exit 1
    fi
   done
   echo "(Now creating the symlinks...)" >&4
   awk '{print $1}' $src/MANIFEST | while true; do
    read filename
    test -z "$filename" && break
    if test -f $filename; then
     if $issymlink $filename; then
      rm -f $filename
     fi
    fi
    if test -f $filename; then
     echo "$filename already exists, not symlinking."
    else
?X: Note that the following works because "$pkgsrc" is absolute
      ln
 -s $pkgsrc/$filename $filename
    fi
```

```
  done
?X: Check that everything was correctly copied
  echo "(Checking current directory...)" >&4
  cd UU
  awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
   (split -l 50 2>/dev/null || split -50)
  rm -f missing
  tmppwd=`pwd`
  for filelist in x??; do
   (cd ..; ls `cat "$tmppwd/$filelist"` \
    >/dev/null 2>>"$tmppwd/missing")
  done
  if test -s missing; then
   echo "Failed duplication of source tree.  Aborting." >&4
   exit 1
  fi
  ;;
 *) echo "(I cannot figure out how to do symbolic links, ignoring!)" >&4
  ;;
 esac
 ;;
esac
```

@end

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Mksymlinks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: so.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
```

```
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so d_libname_unique: test libpth Loc Myread Oldconfig cat Setvar
?MAKE: -pick add $@ %<
?S:so:
?S: This
 variable holds the extension used to identify shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?S:d_libname_unique:
?S: This variable is defined if the target system insists on unique
?S: basenames for shared library files. This is currently true on Android,
?S: false everywhere else we know of.
?S: Defaults to 'undef'.
?S:.
?LINT:set d_libname_unique
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

: Does target system insist that shared library basenames are unique
$cat << EOM

Some dynamic loaders assume that the *basename* of shared library
 filenames
are globally unique.  We'll default this to undef as we assume your system
is not this weird. Set to defined if you're on one of them.
```

```
EOM

dflt='n'
rp='Make shared library basenames unique?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set d_libname_unique
eval $setvar

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/so.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: dlext.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:dlext: \
 Getfile Myread cat usedl so
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:dlext:
?S: This variable contains the extension that is to be used for the
?S: dynamically loaded modules that perl generates.
?S:.
: Check what extension to use for shared libs
case "$usedl" in
$define|y|true)
 $cat <<
```

```
 EOM

On a few systems, the dynamically loaded modules that perl generates and uses
will need a different extension than shared libs. The default will probably
be appropriate.

EOM
 case "$dlext" in
 '') dflt="$so" ;;
 *) dflt="$dlext" ;;
 esac
 rp='What is the extension of dynamically loaded modules'
 . ./myread
 dlext="$ans"
 ;;
*)
 dlext="none"
 ;;
esac

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/dlext.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: vendorman3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman3dir vendorman3direxp installvendorman3dir: man3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman3dir:
?S: This variable contains the name of the directory for man3
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
```

```
 who distribute perl may wish to place their own
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman3direxp:
?S: This variable is the ~name expanded version of vendorman3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman3dir="
?S:installvendorman3dir:
?S: This variable is really the same as vendorman3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman3dir
: Set the vendorman3dir variables
case "$vendorprefix" in
") vendorman3dir="
 vendorman3direxp="
 ;;
*) : determine where vendor-supplied module manual pages go.
 case "$vendorman3dir" in
 ") dflt=`echo "$man3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname
 for the vendor-supplied manual section 3 pages?'
 . ./getfile
 vendorman3dir="$ans"
 vendorman3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman3dir" = "X" && vendorman3dir=' '
prefixvar=vendorman3dir
. ./installprefix

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorman3dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_byacc.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_byacc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:14  ram
?RCS: patch61: created
?RCS:
?MAKE:d_byacc: byacc Setvar
?MAKE: -pick add $@ %<
?S:d_byacc:
?S: This variable indicates whether byacc is available.
?S: If the user has specified 'portability', then Makefile.SH
?S: sees $byacc='byacc' whether or not the user actually has
?S: byacc.  This variable allows us to determine in a makefile
?S: if we really
 have byacc.
?S:.
?LINT:set d_byacc
: Check if we really have byacc
case "$byacc" in
"|'byacc') val="$undef" ;;
*) val="$define" ;;
esac
set d_byacc
eval $setvar
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_byacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sysman.U,v 3.0.1.2 1994/06/20 07:08:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sysman.U,v $
```

```
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:sysman: test Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form."
 >&4
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/sysman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: siteprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: siteprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:siteprefix siteprefixexp +oldsiteprefix: Getfile Loc Oldconfig cat package prefix
?MAKE: -pick add $@ %<
?S:siteprefix:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:siteprefixexp:
?S: This variable holds the full absolute path of the
 directory below
?S: which the user will install add-on packages.  Derived from siteprefix.
?S:.
?S:oldsiteprefix:
?S: This variable is set non-null if the siteprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the siteprefix variables
$cat <<EOM

After $package is installed, you may wish to install various
add-on modules and utilities.  Typically, these add-ons will
be installed under $prefix with the rest
of this package.  However, you may wish to install such add-ons
elsewhere under a different prefix.

If you do not wish to put everything under a single prefix, that's
ok.  You will be prompted for the individual locations; this siteprefix
is only used to suggest the defaults.

The default should be fine for most people.

EOM
fn=d~+
rp='Installation prefix to use for add-on modules and utilities?'
: XXX Here might be another good place for an installstyle setting.
case "$siteprefix" in
") dflt=$prefix ;;
```

```
*)  dflt=$siteprefix
 ;;
esac
. ./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldsiteprefix=''
case "$siteprefix" in
'') ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldsiteprefix="$prefix";;
 esac
 ;;
esac
siteprefix="$ans"
siteprefixexp="$ansexp"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/siteprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nis.U,v 3.0.1.3 1997/02/28 16:17:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat
 groupcat hostcat: Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
```

```
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
:
 see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
```

```
  ;;
 *) passcat='cat /etc/passwd'
@if groupcat
  echo "(Assuming /etc/group is also local.)"
  groupcat='cat /etc/group'
@end
  ;;
 esac
 ;;
esac
@end
@if hostcat
case "$hostcat" in
nidump*) ;;
*)
 case
"$hostcat" in
 *ypcat*) dflt=y;;
 ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
   dflt=y
  else
   dflt=n
  fi;;
 *) dflt=n;;
 esac
 echo " "
 rp='Are you getting the hosts file via yellow pages?'
 . ./myread
 case "$ans" in
 y*) hostcat='ypcat hosts';;
 *) hostcat='cat /etc/hosts';;
 esac
 ;;
esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") test -f /etc/hosts && hostcat='cat /etc/hosts';;
esac
case "$groupcat" in
") test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/nis.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: sitescript.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitescript.U,v $
?RCS:
?MAKE:sitescript sitescriptexp installsitescript : Getfile Oldconfig test \
 Setprefixvar sitebin siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitescript=''
?S:sitescript:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question. It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard
 distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: scripts in this directory with
?S: MakeMaker Makefile.PL
?S: or equivalent. See INSTALL for details.
?S:.
?D:sitescriptexp=''
?S:sitescriptexp:
?S: This is the same as the sitescript variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitescript=''
?S:installsitescript:
?S: This variable is usually the same as sitescriptexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitescript
?LINT:set sitescript
?LINT:set sitescriptexp
: determine where add-on public executable scripts go

```
case "$sitescript" in
") dflt=$siteprefix/script
 $test -d $dflt || dflt=$sitebin ;;
*)  dflt="$sitescript" ;;
esac
fn=d~+
rp='Pathname where add-on public executable scripts
 should be installed?'
. ./getfile
prefixvar=sitescript
. ./setprefixvar
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitescript.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file initializes certain default variables
 used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix _exe: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
```

```
?S:.
?S:_exe (exe_ext):
?S: This variable defines the extension used for executable files.
?S: For unix it is empty.  Other possible values include '.exe'.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X:
 everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?T: DJGPP
: Initialize wide constants
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
 : Amiga OS
  _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
 : Stratus VOS
 _exe=".pm"
elif test -n "$DJGPP"; then
 : DOS DJGPP
  _exe=".exe"
elif test -d c:/. ; then
 : OS/2 or cygwin
 _exe=".exe"
else
 : All other UNIX systems
```

```
 _exe=""
fi

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Init.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman3dir siteman3direxp installsiteman3dir: Getfile \
 Setprefixvar prefix siteprefix man3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman3dir="
?S:siteman3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library man source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman3direxp="
?S:siteman3direxp:
?S: This variable is the same as the siteman3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman3dir="
?S:installsiteman3dir:
?S: This variable is really the same as siteman3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman3dir
```

```
?LINT:set siteman3dir
?LINT:set siteman3direxp
: determine where add-on library man pages go
case "$siteman3dir" in
'') dflt=`echo $man3dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman3dir ;;
esac
case "$dflt" in
'|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific library manual pages should be installed?'
. ./getfile
prefixvar=siteman3dir
. ./setprefixvar
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/siteman3dir.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

    Copyright (c) 1996-1998, Andy Dougherty
    Copyright (c) 1999-2011, H.Merijn Brand
  All rights reserved.

These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README
  This file.

Glossary.patch
  The standard dist units contain some strings that make pod2man
  complain. This patch silences those warnings. As new units are
  added and Configure is regenerated, this patch may need more and more
  'fuzz' to be applied. It should be freshly regenerated every once
  in a while. See also mkgloss.pl

ln-all.pl

Re-generate the all/ folder

mkglossary
A script
to regenerate Porting/Glossary. You have to manually
edit the top of the script to point the location of your metaconfig
units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
A perl script that calls U/mkglossary from the perl source tree, sorts
the list of symbols, and applies the patch mentioned in Glossary.patch.
When called on its own, redirect the output to a temporary file, and
compare that file to Porting/Glossary before applying.

mksample
A script to regenerate Porting/config.sh and Porting/config.H.
It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following
directories.

a_dvisory/
These are units that have to go first in the generated config_h.SH.
A word of explanation: Configure and config_h.SH are generated from 'Units'
(the *.U files). Files indicate dependencies (using make(1)), and
Configure is built to follow those dependencies.
However, config_h.SH
is simply built by putting all the units in alphabetical order and
extracting the relevant lines. (This could be fixed, I suppose, but
it wasn't trivial the one time I looked.)
The a_dvisory/ directory, then, is a place to put units that need
to be early in config_h.SH. (Most units are self-contained
and ought to be able to go anywhere. However, some things, like
byteorder, need to have the #defines from multiarch available.)

acl/
This is an old patch to begin to detect and use ACL (access
control list) file protection schemes.

all/
A folder that conveniently holds symbolic links to all the modules
that are used to build the current Configure and config_h.SH.

compline/
These are similar to the standard units, but I have modified them
to have a more uniform compile command line, usually using the

new Compile.U unit. (The ccflags.U unit is perl-specific since it
mentions -DDEBUGGING and
-DPOSIX_SOURCE, but that's the only place
it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built
and installed. I have submitted these for inclusion in the
regular dist distribution. They have already been applied
to the ../dist-3.0at70b directory.

ebcdic/
These are units that had to be specially modified to work under
either EBCDIC or ASCII.

installdirs/
These are units to handle perl's installation directories and
related issues.

modified/
These are modified versions of the standard units. Also included in
this directory are new units that are clearly derived from existing
units. I have submitted these for inclusion in the regular dist
distribution.

nullified/
These are null units that replace units in the standard
distribution. Typically they are there because some part of the
perl source accidentally uses a symbol that metaconfig thinks means we
want the corresponding
unit.

perl/
These are specific to perl. Some are heavily derived from
original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory
should ordinarily be empty, but there may have been drift between
the standard version of perl and the one associated with these
units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U
units to check for prototypes.

threads/
These are specific to threading perl.

typedefs/
  These are standard units modified to use the modified Typedef.U
  unit to check for typedefs. (The modified Typdef.U includes a
  function to avoid unnecessary prompts if the typdef being searched
  for exists.)

Where appropriate, I submitted these units for inclusion into the
regular dist distribution. However, since dist is no longer actively
maintained, and the alternative is for *me* to actively maintain it,
the units just
 sit here.

Copyright Information:

Unless otherwise indicated, the files contained in this
distribution are:

  Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

  a) the "Artistic License" which comes with Perl, or

  b) the "Artistic License" which comes with dist, or

  c) the GNU General Public License as published by the Free
  Software Foundation; either version 1, or (at your option) any
  later version (see the file "Copying" that comes with the
  Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified
 license as contained in dist-3.0-pl60 provides:

  7. You may reuse parts of this Package in your own programs, provided
  that you explicitly state where you got them from, in the source code
  (and, left to your courtesy, in the documentation), duplicating

all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences
 between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/README
No license file was found, but licenses were detected in source scan.

?RCS: $Id: afs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: afs.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:23:06 ram
?RCS: patch61: can now explicitly tell Configure whether AFS is running
?RCS:
?RCS: Revision 3.0.1.1 1993/08/24 12:24:43 ram
?RCS: patch3: created
?RCS:
?MAKE:afs afsroot: test
?MAKE: -pick add $@ %<
?S:afs:
?S: This variable is set to 'true' if AFS (Andrew File System) is used

```
?S: on the system, 'false' otherwise.  It is possible to override this
?S: with a hint value or command line option,
 but you'd better know
?S: what you are doing.
?S:.
?S:afsroot:
?S: This variable is by default set to '/afs'. In the unlikely case
?S: this is not the correct root, it is possible to override this with
?S: a hint value or command line option.  This will be used in subsequent
?S: tests for AFSness in the configure and test process.
?S:.
: allow them to override the AFS root
case "$afsroot" in
") afsroot=/afs ;;
*) afsroot=$afsroot ;;
esac

: is AFS running?
echo " "
case "$afs" in
$define|true) afs=true ;;
$undef|false) afs=false ;;
*) if $test -d $afsroot; then
  afs=true
 else
  afs=false
 fi
 ;;
esac
if $afs; then
 echo "AFS may be running... I'll be extra cautious then..." >&4
else
 echo "AFS does not seem to be running..." >&4
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/afs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig grep \
 d_gnulibc nm egrep rsrc osname Guess
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction is wanted
 or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're using GNU libc -- skimo
case "$usenm"
 in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "$nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
```

```
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ")
  if ./gnu; then
   echo " "
   echo "Hmm...  A GNU system without a GNU C Library?  Weird..." >&4
   dflt=n
  else
   dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
   if $test $dflt -gt 20; then
    dflt=y
   else
    dflt=n
   fi
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the
 'nm' extraction part and to compile a small
test program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

EOM
rp='Shall I use nm to extract C symbols from the libraries?'
```

```
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
'') if $test -f /mach_boot; then
  nm_opt=''  # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p'  # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p'  # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p'  # 64-bit Irix
 else
  nm_opt=''
 fi;;
esac

?X: nm options which may be necessary for shared libraries but illegal
?X: for archive libraries.  Thank you,
 Linux.
case "$nm_so_opt" in
'') case "$osname" in
 *linux*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/usenm.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
```

?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:10 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ". This
?X: probably isn't necessary, but I'm paranoid. About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Null.U
No license file was found, but licenses were detected in source scan.

* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/metaconfig.html
No license file was found, but licenses were detected in source scan.

?RCS: $Id: patchlevel.U,v 3.0.1.1 1997/02/28 16:18:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1 1997/02/28 16:18:41 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:31 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:

?MAKE:patchlevel revision version subversion \
 perl_patchlevel version_patchlevel_string \
 api_revision api_version api_subversion api_versionstring: \
 package test rsrc echo awk osname
?MAKE: -pick
 add $@ %<
?S:revision:
?S: The value of revision comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "5".
?S: In patchlevel.h, this is referred to as "PERL_REVISION".
?S:.
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "6".
?S: In patchlevel.h, this is referred to as "PERL_VERSION".
?S:.
?S:subversion:
?S: The subversion level of this package.
?S: The value of subversion comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "1".
?S: In patchlevel.h, this is referred to as "PERL_SUBVERSION".
?S: This is unique to perl.
?S:.
?S:version:
?S: The full version number of this package, such as 5.6.1 (or 5_6_1).
?S: This combines revision, patchlevel, and subversion to get the
?S: full version number, including any possible subversions.
?S: This is suitable for use as a directory name, and hence is
?S: filesystem
 dependent.
?S:.
?S:api_revision:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl. In a full version string
?S: such as '5.6.1', api_revision is the '5'.
?S: Prior to 5.5.640, the format was a floating point number,
?S: like 5.00563.
?S:
?S: perl.c:incpush() and lib/lib.pm will automatically search in
?S: $sitelib/.. for older directories back to the limit specified
?S: by these api_ variables. This is only useful if you have a
?S: perl library directory tree structured like the default one.
?S: See INSTALL for how this works. The versioned site_perl
?S: directory was introduced in 5.005, so that is the lowest
?S: possible value. The version list appropriate for the current
?S: system is determined in inc_version_list.U.

?S:
?S: XXX To do: Since compatibility can depend on compile time
?S: options (such as bincompat, longlong, etc.) it should
?S: (perhaps) be set by
 Configure, but currently it isn't.
?S: Currently, we read a hard-wired value from patchlevel.h.
?S: Perhaps what we ought to do is take the hard-wired value from
?S: patchlevel.h but then modify it if the current Configure
?S: options warrant. patchlevel.h then would use an #ifdef guard.
?S:.
?S:api_version:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl. In a full version string
?S: such as '5.6.1', api_version is the '6'. See api_revision for
?S: full details. As a special case, 5.5.0 is rendered in the
?S: old-style as 5.005. (In the 5.005_0x maintenance series,
?S: this was the only versioned directory in $sitelib.)
?S:.
?S:api_subversion:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl. In a full version string
?S: such as '5.6.1', api_subversion is the
 '1'. See api_revision for
?S: full details.
?S:.
?S:api_versionstring:
?S: This variable combines api_revision, api_version, and
?S: api_subversion in a format such as 5.6.1 (or 5_6_1) suitable
?S: for use as a directory name. This is filesystem dependent.
?S:.
?S:perl_patchlevel:
?S: This is the Perl patch level, a numeric change identifier,
?S: as defined by whichever source code maintenance system
?S: is used to maintain the patches; currently Perforce.
?S: It does not correlate with the Perl version numbers or
?S: the maintenance versus development dichotomy except
?S: by also being increasing.
?S:.
?S:version_patchlevel_string:
?S: This is a string combining version, subversion and
?S: perl_patchlevel (if perl_patchlevel is non-zero).
?S: It is typically something like
?S: 'version 7 subversion 1' or
?S: 'version 7 subversion 1 patchlevel 11224'
?S: It is computed here to avoid duplication of code in myconfig.SH
?S: and lib/Config.pm.

```
?S:.
?LINT:extern LC_ALL
?LINT:extern LANGUAGE
:
 get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r $rsrc/patchlevel.h;then
 revision=`awk '/define[  ]+PERL_REVISION/ {print $3}' $rsrc/patchlevel.h`
 patchlevel=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 subversion=`awk '/define[  ]+PERL_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 api_revision=`awk '/define[  ]+PERL_API_REVISION/ {print $3}' $rsrc/patchlevel.h`
 api_version=`awk '/define[  ]+PERL_API_VERSION/ {print $3}' $rsrc/patchlevel.h`
 api_subversion=`awk '/define[  ]+PERL_API_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 perl_patchlevel=`egrep ',"(MAINT|SMOKE)[0-9][0-9]*"' $rsrc/patchlevel.h|tail -1|sed 's/[^0-9]//g'`
else
 revision=0
 patchlevel=0
 subversion=0
 api_revision=0
 api_version=0
 api_subversion=0
 perl_patchlevel=0
 $echo "(You do not have patchlevel.h.  Eek.)"
fi
: Define a handy string here to avoid duplication in myconfig.SH and configpm.
version_patchlevel_string="version $patchlevel subversion $subversion"
case
 "$perl_patchlevel" in
0|'') ;;
*)  perl_patchlevel=`echo $perl_patchlevel | sed 's/.* //'`
   version_patchlevel_string="$version_patchlevel_string patch $perl_patchlevel"
   ;;
esac

$echo "(You have $package $version_patchlevel_string.)"

case "$osname" in
dos|vms)
 : XXX Should be a Configure test for double-dots in filenames.
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 ;;
*)
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
```

```
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 ;;
esac
: Special case the 5.005_xx maintenance series, which used 5.005
: without any subversion label as a subdirectory in $sitelib
if test "${api_revision}${api_version}${api_subversion}" = "550"; then
 api_versionstring='5.005'
fi
```

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/patchlevel.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

    Copyright (c) 1996-1998, Andy Dougherty
    Copyright (c) 1999-2011, H.Merijn Brand
  All rights reserved.

These units are the ones I used to build Configure and config_h.SH
in the Perl5 distribution.

The Configure script and config_h.SH file in the Perl distribution are
generated by a program called metaconfig. To run metaconfig, you will
need the full dist 3.0 distribution, maintained by Raphael Manfredi.
As of this writing, the current version is dist3.0, patchlevel 70.
Dist version dist-3.0@70.tar.gz is available on CPAN (the Comprehensive
Perl Archive Network) as
<http://www.perl.com/perl/CPAN/authors/id/RAM/dist-3.0@70.tar.gz>.

Instructions:

1. Unpack the full perl5 sources. Execute the following command

```
 chmod +w Configure config_h.SH Porting/Glossary Porting/config*
```

2. Unpack the archive containing this file in the perl5 source
   directory. This will create a directory
 'U' under the perl5
   sources. That directory will contain the metaconfig units for perl5.
   This will also create two files in the perl5 source tree:
   MANIFEST.new and .package.

3. Apply any patches to perl in the perl_patches/ directory.
   (This may well be empty.)

4. Obtain and install dist-3.0pl70.

4. Apply any patches to dist under the dist_patches subdirectory.

5. From your main perl5 source directory, run packinit to
regenerate the .package file. IMPORTANT: Change the name and
address of the maintainer to your own name and address. I don't
want bug reports intended for you coming to me.

6. From your main perl5 source directory, run

metalint (or mlint)

and repair every failure it reports.

7. From your main perl5 source directory, run

metaconfig -m (or mconfig -m)

8. Edit U/mkglossary and/or U/mkgloss.pl to point to your dist-3.0pl70
location. (See comments at the top.)

9. Run the Porting/mksample script to update the contents
of the Porting/
subdirectory, or run all parts by hand. (see README)

NB: this script used to be U/mksample replaced by Porting/mksample;
see Porting/pumpkin.pod instead for current documentation on its
use.

10. Let me know about any changes, corrections, or enhancements.

Things to watch out for:

1. Future support of better random number generators should probably
start with the randfunc.U unit included here. It's currently
broken, but well commented and probably a good place to start.

Descriptions:

The units and other related files have been broken up into the following
directories:

acl/
This is an old patch to begin to detect and use ACL (access
control list) file protection schemes.

compline/

These are similar to the standard units, but I have modified them
to have a more uniform compile command line, usually using the new
Compile.U unit. I have submitted these for inclusion into the
regular dist distribution. (The ccflags.U
unit is actually
perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE,
but that's the only place it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built
and installed. I have submitted these for inclusion in the
regular dist distribution.

modified/
These are modified versions of the standard units. Also included in
this directory are new units that are clearly derived from existing
units. I have submitted these for inclusion in the regular dist
distribution.

perl/
These are specific to perl. Some are heavily derived from
original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory
should ordinarily be empty, but there may have been drift between
the standard version of perl and the one associated with these
units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U
units to check for prototypes. I have submitted these for inclusion
into the regular dist distribution.

target/
This is the very, very beginning of cross-compiler support.
It doesn't work yet, and many standard units will need
modification.

typedefs/
These are standard units modified to use the modified Typedef.U
unit to check for typedefs. (The modified Typdef.U includes a
function to avoid unnecessary prompts if the typdef being searched
for exists.) I have submitted these for inclusion into the
regular dist distribution.

threads/
These are specific to threading perl.

Copyright Information:

Unless otherwise indicated, the files contained in this
distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

a) the "Artistic License" which comes with Perl,
or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked
as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/README.dist
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Extras.U,v$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:extras: Myread Oldconfig Setvar rm
?MAKE: -pick add $@ %<
?Y:TOP
?S:extras:
?S: This variable holds a list of extra modules to install.
?S:.
: See if we want extra modules installed
echo " "
case "$extras" in
'') dflt='n';;
*) dflt='y';;
esac
cat <<EOM
Perl can be built with extra modules or bundles of modules which
will be fetched from the CPAN and installed alongside Perl.

Notice that you will need access to the CPAN; either via the Internet,
or a local copy, for example a CD-ROM or a local CPAN mirror. (You will
be asked later to configure the CPAN.pm module which will in turn do
the installation of the rest of the extra modules or bundles.)

Notice also that if the modules require
 any external software such as
libraries and headers (the libz library and the zlib.h header for the
Compress::Zlib module, for example) you MUST have any such software
already installed, this configuration process will NOT install such
things for you.

```
If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Install any extra modules (y or n)?'
. ./myread
case "$ans" in
y|Y)
 cat <<EOM

Please list any extra modules or bundles to be installed from CPAN,
with spaces between the names.  The names can be in any format the
'install' command of CPAN.pm will understand.  (Answer 'none',
without the quotes, to install no extra modules or bundles.)
EOM
 rp='Extras?'
 dflt="$extras"
 . ./myread
 extras="$ans"
esac
case "$extras" in
''|'none')
 val=''
 $rm -f ../extras.lst
 ;;
*) echo "(Saving the list of extras for later...)"
 echo "$extras" > ../extras.lst
 val="'$extras'"
 ;;
esac
set extras
eval $setvar
echo " "
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Extras.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: afs cat nroff Loc Oldconfig \
 spackage test Getfile Prefixit prefixexp
 Prefixup sysman Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
: determine
 where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
```

```
 case "$man1dir" in
 '') man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
'')
 lookpath="$prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)
  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir='
fi
man1dir="$ans"
man1direxp="$ansexp"
case "$man1dir" in
'') man1dir=' '
 installman1dir='';;
esac
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).
```

```
EOM
 case "$installman1dir" in
 '') dflt=`echo $man1direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman1dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman1dir="$ans"
else
 installman1dir="$man1direxp"
fi

: What suffix to use on installed man pages

case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 '') case "$man1dir" in
  *1)  dflt=1 ;;
  *1p)
 dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1) dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/man1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Loc Oldconfig byacc bison cat test
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This variable contains any
 additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
case "$yacc" in
")
 yacc=`./loc yacc yacc $pth`
 if $test -f "$yacc$_exe"; then
  dflt='yacc'
 elif $test -f "$byacc$_exe"; then
  dflt='byacc'
 elif $test -f "$bison$_exe"; then
  dflt='bison'
 else
```

```
 dflt="
 fi
 ;;
*) dflt="$yacc";;
esac
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behaviour.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
'') dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are
 explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags='';;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/yacc.U

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

```
?RCS: $Id: warnflags.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: warnflags.U,v $
?RCS: Revision 3.0  1993/08/18  12:10:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:warnflags: cat cc contains Myread Guess Oldconfig Findhdr
?MAKE: -pick add $@ %<
?S:warnflags:
?S: This variable contains any additional C compiler flags to generate
?S: warnings from the compiler. It is up to the Makefile to use this.
?S:.
: offer additional
 warning flags for compilation
$cat <<EOH

You may wish to compile with extra compiler warnings enabled.
Note that doing so enhances your chance of receiving your free set of steak
knives, particularly if you find any bugs and report them.
If you don't want extra warnings, answer "none".

EOH
case "$warnflags" in
") case "$cc" in
 *gcc*)
  dflt="-Wall -Wno-comment"
  if $contains 'fprintf' `./findhdr stdio.h` >/dev/null 2>&1; then
   :
  else
   dflt="$dflt -Wno-implicit"
  fi
  ;;
 *) dflt="none";;
 esac
 ;;
' ') dflt="none";;
```

```
*) dflt="$warnflags";;
esac

rp="Any $cc flags to enable warnings?"
. ./myread
case "$ans" in
none) warnflags=' ';;
*) warnflags="$ans";;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/warnflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7EXT.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7EXT.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:42  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit issues warnings to V7 sites that they are living dangerously.
?X: This unit needs to get mentioned in End.U to get included.
?X:
?MAKE:Warn_v7EXT: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7;
 then
 cat <<EOM

NOTE: the V7 compiler may ignore some #undefs that $package uses.  If so,
you may get messages about redefining EXT.  Some V7 compilers also have
difficulties with #defines near buffer boundaries, so beware.  You may have
to play with the spacing in some .h files, believe it or not.
EOM
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Warn_v7EXT.U
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```
?RCS: $Id: Mkdirp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can launched to create a
?X: directory path like "mkdir -p" would do.
?X:
?MAKE:Mkdirp:
 eunicefix startsh
?MAKE: -pick add $@ %<
?F:./mkdirp
?T:name create file
: script used to emulate mkdir -p
cat >mkdirp <<EOS
$startsh
EOS
cat >>mkdirp <<'EOS'
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create"
  name=`echo $name | sed -e "s|^[^/]*$||"`
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`
 else
  name=""
```

```
 fi
done
for file in $create; do
 mkdir $file
done
EOS
chmod +x mkdirp
$eunicefix mkdirp
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Mkdirp.U
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```
?RCS: $Id: packadmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
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?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:packadmin: cf_email Oldconfig Myread cat spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:packadmin:
?S: Electronic mail address of the package administrator.
?S:.
: check wehther they will act as local admin for the package
$cat <<EOM

If you or somebody else will be maintaining $package at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary.  You may enter "none"
 for no administrator.

EOM
case "$packadmin" in
") dflt="$cf_email";;
*) dflt="$packadmin";;
esac
rp="$spackage administrator e-mail address"
. ./myread
packadmin="$ans"
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/packadmin.U
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```
?RCS: $Id: libs.U,v 3.0.1.6 1997/02/28 16:09:11 ram Exp $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30:
 undone patch23 for libswanted default setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs ignore_versioned_solibs libsfound libsfiles libsdirs libspath: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 usesocks sed uselongdouble
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
```

?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This
 variable holds the directory names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:ignore_versioned_solibs:
?S: This variable should be non-empty if non-versioned shared
?S: libraries (libfoo.so.x.y) are to be ignored (because they
?S: cannot be linked against).
?S:.
?T:xxx yyy thislib thisdir libswanted libstyle
?D:libs="
?X:
?X: This order is chosen so that libraries -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time. Usually, these are backwards compatibility
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is
 available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: default library list
?INIT:libswanted="
?INIT:: some systems want to use only the non-versioned libso:s
?INIT:ignore_versioned_solibs="

```
?LINT:extern usecbacktrace
?LINT:extern libscheck
?LINT:extern p
?LINT:use uselongdouble
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5
 socks5_sh" ;;
esac
case "$usecbacktrace" in
"$define") libswanted="$libswanted bfd" ;;
esac
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted; do
 for thisdir in $libspath; do
    xxx="
    if $test ! -f "$xxx" -a "X$ignore_versioned_solibs" = "X"; then
  xxx=`ls $thisdir/lib$thislib.$so.[0-9] 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
  xxx=`ls $thisdir/lib$thislib.[0-9].$so 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib$thislib.$so$_a
  $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle="import"
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/$thislib.$so$_a
```

```
 $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle="import"
   fi
   if test ! -f "$xxx";
then
 xxx=$thisdir/lib$thislib.$so
      $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=shared
   fi
   if test ! -f "$xxx"; then
 xxx=$thisdir/lib$thislib$_a
      $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
   fi
   if test ! -f "$xxx"; then
 xxx=$thisdir/$thislib$_a
      $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
   fi
   if test ! -f "$xxx"; then
 xxx=$thisdir/lib${thislib}_s$_a
      $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
 $test -f "$xxx" && thislib=${thislib}_s
   fi
   if test ! -f "$xxx"; then
 xxx=$thisdir/Slib$thislib$_a
      $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
   fi
   if $test -f "$xxx"; then
 case "$libstyle" in
 shared) echo "Found -l$thislib (shared)." ;;
 static) echo "Found -l$thislib." ;;
 *)      echo "Found -l$thislib ($libstyle)." ;;
 esac
 case " $dflt " in
 *"-l$thislib "*);;
 *)
dflt="$dflt -l$thislib"
   libsfound="$libsfound $xxx"
   yyy=`basename $xxx`
   libsfiles="$libsfiles $yyy"
   yyy=`echo $xxx|$sed -e "s%/$yyy\\$%%"`
   case " $libsdirs " in
   *" $yyy "*) ;;
   *) libsdirs="$libsdirs $yyy" ;;
   esac
```

```
    ;;
 esac
 break
    fi
done
if $test ! -f "$xxx"; then
    echo "No -l$thislib."
fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
'') dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|'') dflt='none';;
esac

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="What libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/libs.U
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?RCS: of the source tree for dist 4.0.
```

```
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?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs
?MAKE: -pick add $@ %<
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally
 by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile,
 except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
```

```
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs;'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Compile.U
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```
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?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in order
?X: to make quick check on whether the current C compiler is working.
?X:
?MAKE:Checkcc ccname ccversion: Myread Warn startsh cat contains test
?MAKE: -pick add $@ %<
?S:ccname:
?S: This can set either by hints files or by Configure.  If using
?S: gcc, this is gcc, and if not, usually equal to cc, unimpressive, no?
?S: Some platforms, however, make good use of this by storing the
?S: flavor
 of the C compiler being used here.  For example if using
?S: the Sun WorkShop suite, ccname will be 'workshop'.
?S:.
?S:ccversion:
?S: This can set either by hints files or by Configure.  If using
?S: a (non-gcc) vendor cc, this variable may contain a version for
?S: the compiler.
?S:.
?F:./checkcc ./trygcc !checktmp
?V:despair
?T:trygcc
?LINT:extern cc rm ccflags ldflags
?LINT:change cc ccflags
```

```
?LINT:usefile checktmp
?INIT:ccname="
?INIT:ccversion="
: generate the trygcc script for later perusal
cat <<EOS >trygcc
$startsh
EOS
cat <<'EOSC' >>trygcc
case "$cc" in
") ;;
*)  $rm -f try try.*
  $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
  if $cc -o try $ccflags $ldflags try.c; then
    :
  else
     echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
     despair=yes
     trygcc=yes
     case "$cc" in
     *gcc*) trygcc=no ;;
     esac
     case "`$cc -v -c try.c 2>&1`" in

    *gcc*) trygcc=no ;;
     esac
     if $test X"$trygcc" = Xyes; then
        if gcc -o try -c try.c; then
           echo " "
           echo "You seem to have a working gcc, though." >&4
           rp="Would you like to use it?"
           dflt=y
           if $test -f myread; then
              . ./myread
           else
              if $test -f UU/myread; then
                 . ./UU/myread
              else
                 echo "Cannot find myread, sorry.  Aborting." >&2
                 exit 1
              fi
           fi
           case "$ans" in
```

```
            [yY]*) cc=gcc; ccname=gcc; ccflags=''; despair=no;
?X: Look whether we have 'call-back units' generated by hints that would
?X: seemingly affect the compiling environment.
                    $cat *.cbu >checktmp 2>/dev/null
                    if $contains ccflags checktmp >/dev/null; then

        ./warn <<EOM
Any previous setting of the C compiler flags has been lost.
It may be necessary to pass -Dcc=gcc to Configure right away.
EOM
                    fi;;
                esac
            fi
        fi
    fi
    $rm -f try try.*
    ;;
esac
EOSC

: generate the checkcc script for later perusal
cat <<EOS >checkcc
$startsh
EOS
cat <<'EOSC' >>checkcc
case "$cc" in
'') ;;
*)  $rm -f try try.*
    $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
    if $cc -o try $ccflags $ldflags try.c; then
        :
    else
        if $test X"$despair" = Xyes; then
            echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
        fi
        $cat >&4 <<EOM
You need to find a working C compiler.
Either (purchase and) install the C compiler supplied by your OS vendor,
or for a free C compiler try http://gcc.gnu.org/
I cannot continue any further, aborting.
EOM
        exit 1
```

```
  fi

 $rm -f try try.*
  ;;
esac
EOSC

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Checkcc.U
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?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30: undone patch23 for libswanted default
 setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs libsfound libsfiles libsdirs libspath libscheck: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
```

```
 +usesocks sed +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This variable holds the directory
 names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:libscheck:
?S: This variable is intended to be set by hint files, if needed.
?S: It should contain shell code that will be eval'ed with $xxx holding
?S: some library file.  It may change $xxx if needed.
?S: For instance, on an Irix platform, you may make sure the right
?S: library file is used depending on the cc command line, so that the
?S: correct library is used depending on the selected ABI (for 32 and
?S: 64-bit compilations).
?S:
?S: Here is an example of code that could be found in a hint file on Irix
?S: when the selected compiler was for 32-bit -- that code is put in the
?S: cc.cbu call-back unit to be invoked AFTER the C compiler and its
?S: flags have been chosen:
?S:
?S:  libscheck='case "$xxx" in
?S:  *.a) /bin/ar p $xxx `/bin/ar t $xxx | sed q` >$$.o;
?S:   case "`/usr/bin/file $$.o`" in
?S:   *N32*)
 rm -f $$.o ;;
?S:   *) rm -f $$.o; xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  *) case "`/usr/bin/file $xxx`" in
?S:   *N32*) ;;
?S:   *) xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  esac'
```

```
?S:.
?D:libs="
?LINT:extern libswanted
?LINT:change libswanted
?INIT:: default library list
?INIT:libswanted="
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatability
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private
 Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: should be set by hint files if needed
?INIT:libscheck="
?T:xxx yyy thislib thisdir libstyle linkmsg
?F:lt.c lt
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5 socks5_sh" ;;
esac
?X: Used later for link checks
```

```
echo "extern char printf(); int main() { printf(); return 0; }" > lt.c
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted;
 do
 for thisdir in $libspath; do
    xxx="
    if $test ! -f "$xxx" ; then
  xxx=`ls $thisdir/lib$thislib.$so.[0-9]* 2>/dev/null | $sed -n '1p'`
  $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib$thislib.$so
  $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib$thislib$_a
       $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/$thislib$_a
       $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib${thislib}_s$_a
       $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
  $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/Slib$thislib$_a
       $test -f "$xxx" && eval $libscheck
  $test
 -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
?X:
?X: It is not sufficient to find a .so on the disk.  We must make sure
?X: that we can indeed supply the -lfoo line on the cc line to link against
```

```
?X: that library.  On Linux for instance, a versionned .so will not be
?X: implicitly linked against, whereas it will work fine on Solaris 2.6.
?X:  --RAM, 10/10/2003
?X:
  if $cc -o lt $ccflags $ldflags lt.c -l$thislib >/dev/null 2>&1;
  then
   linkmsg=""
  else
   linkmsg=" but I can't link against it"
  fi
  case "$libstyle" in
  shared) echo "Found -l$thislib (shared)$linkmsg." ;;
  static) echo "Found -l$thislib$linkmsg." ;;
  *)      echo "Found -l$thislib ($libstyle)$linkmsg." ;;
  esac
  case " $dflt " in
  *"-l$thislib "*) ;;
  *)
   case "$linkmsg" in
   ")
    dflt="$dflt -l$thislib"
    libsfound="$libsfound $xxx"
    yyy=`basename $xxx`
    libsfiles="$libsfiles $yyy"
    yyy=`echo $xxx|$sed -e "s%/$yyy\\$%%"`
    case " $libsdirs
 " in
    *" $yyy "*) ;;
    *) libsdirs="$libsdirs $yyy" ;;
    esac
      ;;
   esac
   ;;
  esac
  break
    fi
 done
 if $test ! -f "$xxx"; then
    echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
```

```
case "$dflt" in
' '|'') dflt='none';;
esac
$rm -f lt.c lt

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="Which libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libs.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so: test libpth Loc Myread Oldconfig cat
?MAKE: -pick add $@ %<
?S:so:
```

```
?S: This variable holds the extension used to identify
 shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/so.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: n.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: n.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:n c: contains
?MAKE: -pick add $@ %<
?S:n:
```

```
?S: This variable contains the -n flag if that is what causes the echo
?S: command to suppress newline.  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
?S:c:
?S: This variable contains the \c string if that is what causes the echo
?S: command to suppress newline.
  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
: first determine how to suppress newline on echo command
echo " "
echo "Checking echo to see how to suppress newlines..."
(echo "hi there\c" ; echo " ") >.echotmp
if $contains c .echotmp >/dev/null 2>&1 ; then
 echo "...using -n."
 n='-n'
 c=''
else
 cat <<'EOM'
...using \c
EOM
 n=''
 c='\c'
fi
echo $n "The star should be here-->$c"
echo '*'
rm -f .echotmp

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/n.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: lns.U,v 3.0.1.1 1994/06/20 07:05:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
```

```
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic
 links (if they are supported).  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 ; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/lns.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
```

```
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Begin Myread Configdir contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a command.  Many of the questions will have
 default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".
```

```
EOH
 rp=''
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Everytime there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer will remain unchanged
and you will be prompted
 again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in C programs.  You may edit
  any of these
 files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
```

```
. ./myread
case "$firsttime" in
true) echo $user >>../.config/instruct;;
esac
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Instruct.U
No license file was found, but licenses were detected in source scan.

```
*  You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/files/Jmake.tmpl
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
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#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0  1993/08/18 12:04:35  ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order.  It will complain and die if not.  NOTE: It will still produce
# a compilable output file, even with errors, so you must
 check the output.
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/errnolist.a
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running Configure from a remote directory ($src
 is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: Mkdirp src
?MAKE: -pick add $@ %<
?F:./extract
?T:CONFIG SRC dir file
: script used to extract .SH files with variable substitutions
cat >extract <<EOS
CONFIG=true
SRC="$src"
EOS
cat >>extract <<'EOS'
echo "Doing variable substitutions on .SH files..."
if test -f "$SRC/MANIFEST"; then
 set x `awk '{print $1}' <$SRC/MANIFEST | grep '\.SH'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$SRC"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$SRC"; echo *.SH)`; shift;;
esac
if test ! -f "$SRC/$1"; then
 shift
fi
```

```
for file in $*; do
 case "$SRC" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd $dir && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause
 the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   ./mkdirp $dir
   sh <"$SRC/$dir/$file"
   ;;
  *)
   sh <"$SRC/$file"
   ;;
  esac
  ;;
 esac
done
if
```

```
 test -f "$SRC/config_h.SH"; then
 if test ! -f config.h; then
?X: oops, they left it out of MANIFEST, probably, so do it anyway.
  sh <"$SRC/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Extract.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
```

```
 echo " "
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action."
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
chmod +x contains
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: lex.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:22:50  ram
?RCS: patch36: spurious single quote could cause Configure to crash
?RCS: patch36: (reported by Xavier Le Vourch <xavierl@eiffel.com>.)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:27:09  ram
?RCS: patch32: added lexflags variable for lex flags setting
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:06:01  ram
?RCS: patch23: added
 trailing blank line for metalint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lex lexflags: Guess Myread Oldconfig flex test
?MAKE: -pick add $@ %<
?S:lex:
?S: This variable holds the name of the lexical analyser generator we
?S: want to use in the Makefile. It can be lex or flex.
?S:.
?S:lexflags:
?S: This variable holds any flags that should be passed to the lexical
?S: analyzer.  It is up to the Makefile to use it.
```

```
?S:.
: determine lexical analyser generator
case "$lex" in
")
 dflt=lex;;
*)
 dflt="$lex";;
esac
echo " "
if $test -f "$flex"; then
 rp='Which lexical analyser generator (lex or flex) shall I use?'
else
 rp='Which lexical analyser generator shall I use?'
fi
. ./myread
lex="$ans"

@if lexflags
: if using lex this will normally be useless, but flex frequently takes args
echo " "
case "$lexflags" in
") dflt='none';;
*) dflt="$lexflags";;
esac
rp="What flags should be given to $lex?"
. ./myread
case "$ans"
 in
none) lexflags='';;
*) lexflags="$ans";;
esac

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lex.U
No license file was found, but licenses were detected in source scan.

```
/*|?:[\\/]*)
if test -f "$xxx"; then
: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*) xxx=`./loc $xxx $xxx $pth`;;
```

```
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$$file
case "$xxx" in
/*|?:[\\/]*)
if test -f "$xxx"; then
: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*) xxx=`./loc $xxx
 $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\/]*)
echo $file is in $xxx.
;;
*)
```

```
echo "I don't see $file out there, $say."
say=either
;;
esac
done
case "$egrep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$_grep
;;
esac
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$_cp
;;
esac
@end
@if make || gmake
case "$make" in
make)
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
# Assume that gmake, if found, is definitely GNU make
# and prefer it over the system make.
echo "Substituting gmake for make."
make=$gmake
_make=$_gmake
fi
;;
esac
@end
case "$test" in
test)
```

```
echo "Hopefully test is built into
 your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in
echo)
echo "Hopefully echo is built into your sh."
;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible.  In fact, they may be identical."
else
case "$n" in
'-n') n='' c='\c';;
*) n='-n' c='';;
esac
cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built
 in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
$echo $n "The star should be here-->$c"
$echo "*"
fi
$rm -f foo1 foo2
;;
```

```
esac

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Loc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: End.U,v 3.0 1993/08/18 12:04:51 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End perllibs: $W cppstdin gzip zip
 libs usedl osname osvers
?MAKE: -pick add $@ %<
?S:perllibs:
?S: The list of libraries needed by Perl only (any libraries needed
?S: by extensions only will by dropped, if using dynamic loading).
?S:.
?INIT:perllibs="
?LINT:use $W
?LINT:use gzip zip
?LINT:change cppstdin
: Remove libraries needed only for extensions
: The appropriate ext/Foo/Makefile.PL will add them back in, if necessary.
: The exception is SunOS 4.x, which needs them.
case "${osname}X${osvers}" in
sunos*X4*)
  perllibs="$libs"
  ;;
*) case "$usedl" in
  $define|true|[yY]*)
    set X `echo " $libs " | sed -e 's@ -lndbm @ @' -e 's@ -lgdbm @ @' -e 's@ -lgdbm_compat @ @' -e 's@ -ldbm @
@' -e 's@ -ldb @ @'`
```

```
    shift
    perllibs="$*"
    ;;
  *) perllibs="$libs"
    ;;
  esac
  ;;
esac

?X: If the user has the cppstdin wrapper, perl.c will try to call
?X: CPPSTDIN, but that will point to a location in the build
?X: directory, not the installed version!.  Here, we'll just strip the
?X: name down to 'cppstdin',
 and rely on the fact that perl.c will
?X: then call SCRIPTDIR/cppstdin, but local things like 'make depend'
?X: will continue to work.
: Remove build directory name from cppstdin so it can be used from
: either the present location or the final installed location.
echo " "
: Get out of the UU directory to get correct path name.
cd ..
case "$cppstdin" in
`pwd`/cppstdin)
 echo "Stripping down cppstdin path name"
 cppstdin=cppstdin
 ;;
esac
cd UU

: end of configuration questions
echo " "
echo "End of configuration questions."
echo " "

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/End.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: shm_for.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

?RCS: $Log: shm_for.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:28:37 ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:46 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:shm_for shm_att shm_lim: Cppsym Myread ipc uname
?MAKE: -pick add $@ %<
?S:shm_for:
?S: This variable tells us the type of machine we're expecting the
?S: shared memory code to run on. The value is available to C
 programs
?S: in the C_SHM_FOR manifest.
?S:.
?S:shm_att:
?S: This variable tells us where a shared memory segment should be
?S: attached. Good values are HIGH, LOW, and ZERO.
?S:.
?S:shm_lim:
?S: This variable tells us if shared memory attached HIGH should
?S: have an upper limit.
?S:.
?X: --
?X: It's a potential lose to define anything beginning with SHM...
?X: At least we can think that S_ stands for "String version of ..." -- HMS
?X: --
?C:S_SHM_FOR ~ %<:
?C: This symbol identifies what we chose for the target system's
?C: default shared memory configuration parameters.
?C:.
?C:S_SHM_ATT ~ %<:
?C: This symbol holds the default "place" to attach shared memory.
?C: Values are "HIGH", "ZERO", and "LOW".
?C:.
?C:S_SHM_LIM ~ %<:
?C: This symbol holds the default upper bound address limit if shared
?C: memory is attached HIGH. If zero, there is no upper limit.
?C:.
?H:?%<:#ifdef
 SERVE_SHM
?H:?%<:#define S_SHM_FOR "$shm_for"
?H:?%<:#define S_SHM_ATT "$shm_att"
?H:?%<:#define S_SHM_LIM "$shm_lim"
?H:?%<:#endif
?H:.
?W:%<:S_SHM_FOR S_SHM_ATT S_SHM_LIM
: see how to attach shared memory

```
echo " "
echo "Deciding how to attach shared memory..." >&4

case "$ipc" in
shm)
 shm_for='Default case'
 shm_att='HIGH'
 shm_lim='0x0'
 if ./Cppsym tower32 tower32_600; then
  echo "NCR Towers are usually normal..."
  : echo "Oh, an NCR Tower."
  : This works for the 600
  shm_for='NCR Tower 32'
  shm_att='LOW'
 else
  case "$uname" in
  */uname)
   case "`uname -m`" in
   ACS??68*)
    echo "Oh, an Altos 3068."
    shm_for='Altos 3068:'
    shm_lim='0x800000'
    ;;
    esac
    ;;
  *)
   echo "Looks normal to me..."
   ;;
  esac
 fi

 dflt="$shm_for"
 rp='Description of shared memory configuration?'
 . ./myread
 shm_for="$ans"

 dflt="$shm_att"
 rp='Where should shared memory be attached?'
 . ./myread
 shm_att="$ans"

 case "$shm_att" in
 HIGH)
  dflt="$shm_lim"
  rp='What is
 the upper address limit for shared memory?'
  . ./myread
  shm_lim="$ans"
```

```
 ;;
 *)
  shm_lim="
  ;;
 esac
 ;;

*)
 echo "but you aren't using shared memory so I won't bother." >&4
 shm_for='NOT CONFIGURED'
 shm_att='NONE'
 shm_lim='-1'
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/shm_for.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Typedef.U,v 3.0.1.3 1995/07/25 13:42:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef
 val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef: cppstdin cppminus cppflags rm sed contains Oldconfig Myread
```

```
?MAKE: -pick add $@ %<
?LINT:define typedef
?LINT:define typedef_ask
?V:typedef typedef_ask
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?S:typedef_ask:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not.  If it is not defined,
?S: this will call the ./myread script to prompt for an answer.
?S: It is intended to be used to avoid unnecessary prompts.
?S: A typical use is
?S:  rp="What is the type for file position used by fsetpos()?"
?S:  set fpos_t fpostype long stdio.h sys/types.h
?S:  eval $typedef_ask
?S: This
 will set fpostype=fpos_t, if fpos_t is available.  Otherwise
?S: it will call myread with a default of 'long', and a prompt of $rp.
?S:.
?T:type var def inclist varval inc
?F:!temp.c
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
```

```
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

?X: Originally, I eval'd $typedef and then checked the results against
?X: $type.  Unfortunately, it then became complicated to check
?X: whether you are re-using
 an old config.sh value, and the logic got
?X: so convoluted it became easier to just copy the function above
?X: and alter it slightly.  A.D.  3/1998
: define an is-a-typedef? function that prompts if the type is not available.
typedef_ask='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 echo " " ;
 echo "$rp" | $sed -e "s/What is/Looking for/" -e "s/?/./";
 if $contains $type temp.E >/dev/null 2>&1; then
  echo "$type found." >&4;
  eval "$var=\$type";
 else
  echo "$type NOT found." >&4;
  dflt="$def";
  . ./myread ;
  eval "$var=\$ans";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/Typedef.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: yacc.U,v 3.0.1.1 1994/05/13 15:28:48 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Oldconfig byacc bison cat test _exe
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This
 variable contains any additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
case "$yacc" in
")
 dflt=yacc;;
*)
 dflt="$yacc";;
esac
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 dflt="$byacc"
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
```

```
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behavior.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
'') dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the
 maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags='';;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/yacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:perladmin: cf_email Oldconfig Myread cat
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?S:perladmin:
?S: Electronic mail address of the perl5 administrator.
?S:.
: Ask e-mail of administrator
$cat <<EOM

If you or somebody else will be maintaining perl at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary. You may enter "none" for no administrator.

EOM
case "$perladmin" in
'') dflt="$cf_email";;
*) dflt="$perladmin";;
esac
rp='Perl administrator e-mail address'
. ./myread
perladmin="$ans"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perladmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: inc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:inc incexp: Loc Oldconfig Getfile usrinc
?MAKE: -pick add $@ %<
?S:inc:
?S: This variable holds the name of the directory in which the user wants
?S: to put public header files for the package in question.  It is most
?S: often a local directory such as /usr/local/include.
?S:.
?S:incexp:
?S: This is the same as the inc variable, but is filename
```

```
 expaned
?S: at configuration time for convenient use in your makefiles.
?S:.
: determine where public header files go
case "$inc" in
")
 dflt=`./loc . "." /usr/local/include /usr/include/local $usrinc`
 ;;
*)  dflt="$inc"
 ;;
esac
fn=d~
rp='Where do you want to put the public header files?'
. ./getfile
inc="$ans"
incexp="$ansexp"

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/inc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: install.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: install.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:16:37  ram
?RCS: patch59: all possible install programs are now looked for
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:30:41  ram
?RCS: patch45: created
?RCS:
?MAKE:install installdir: Loc Oldconfig Getfile cat test startsh rm +cc \
 eunicefix package contains mkdir echo n c
?MAKE: -pick add $@ %<
?S:install:
?S: This variable contains the name of an install program that can accept
?S: BSD-style arguments.
 It must correctly support -c, -s, and -m at least.
?S: It is a fully qualified pathname when found. If you have a local
?S: install.SH file at the root directory of your package, it is assumed to
?S: be the default script emulating a BSD install and the variable will be
```

```
?S: set to ./install. Otherwise, it is set to plain 'install', relying on
?S: the user's PATH to perform miracles.
?S:.
?S:installdir:
?S: This variable contains the name of a program that can install nested
?S: directories. Often set to 'mkdir -p', it can also be 'install -d' if
?S: you have such a beast and lack the former. If you have an install.SH
?S: file at the root directory of your package, it will be used in last
?S: resort, setting the variable to './install -d'. Otherwise, it is set to
?S: plain 'mkdir', and cross your fingers!
?S:.
?T:dir file tryit prog creatdir either
?F:!tryinst
: locate a BSD compatible install program
echo " "
echo "Looking for a BSD-compatible install program..." >&4
@if installdir
creatdir="
@end
case
 "$install" in
")
 tryit="
 for dir in $pth; do
  for file in ginstall installbsd scoinst install; do
   if $test -f $dir/$file; then
    tryit="$tryit $dir/$file"
   fi
  done
 done
 $cat >try.c <<EOC
int main()
{
 printf("OK\n");
 exit(0);
}
EOC
 if $cc -o try try.c >/dev/null 2>&1; then
  cp try try.ns
  strip try >/dev/null 2>&1
 else
  echo "(I can't seem to compile a trivial C program -- bypassing.)"
  echo "try" >try
  cp try try.ns
 fi
 $cat >tryinst <<EOS
$startsh
$rm -rf foo d
```

```
@if installdir
\$1 -d foo/bar
@end
$mkdir d
\$1 -c -m 764 try.ns d
\$1 -c -s -m 642 try.ns d/try
EOS
 chmod +x tryinst
 $eunicefix tryinst
 dflt="
 either="
 for prog in $tryit; do
  $echo $n "Checking $prog... $c"
  ./tryinst $prog >/dev/null 2>&1
@if installdir
  if $test -d foo/bar; then
   creatdir="$prog -d"
  fi
@end
  (ls -l d/try >try.ls; ls -l d/try.ns >tryno.ls) 2>/dev/null
  if (cmp -s d/try try && cmp -s d/try.ns try.ns && \
   $contains 'rwxrw-r--' tryno.ls &&
 \
   $contains 'rw-r---w-' try.ls) >/dev/null 2>&1
  then
   dflt="$prog"
   echo "ok, that will do."
   break
  fi
  echo "not good$either."
  either=' either'
  $rm -f try*.ls
 done
 $rm -rf foo d tryinst try try*.ls try.*
 case "$dflt" in
 ")
@if {test -f ../install.SH}
  echo "Hopefully, $package comes with its own install script!"
  dflt='./install'
@else
  dflt='install'
@end
  ;;
 esac
 ;;
*) dflt="$install";;
esac
$cat <<EOM
```

```
I will be requiring a BSD-compatible install program (one that allows
options like -s to strip executables or -m to specify a file mode) to
install $package.

If the question below contains a fully qualified default path, then it
is probably ok. If it is an unqualified name such as 'install', then it
means I was unable to find out a good install program I could use. If
@if {test -f ../install.SH}
you know of one, please tell me about it. If the default is './install',
then I shall be using the install script supplied with $package.
@else
you know of one,
 please tell me about it.
@end

EOM
@if {test -f ../install.SH}
fn='/fe~(install,./install)'
@else
fn='/fe~(install)'
@end
rp='Which install program shall I use?'
. ./getfile
install="$ans"

@if installdir
: how can we create nested directories?
echo " "
echo "Ok, let's see how we can create nested directories..." >&4
case "$installdir" in
")
?X: First time, maybe we already found out a working one in $creatdir above...
?X: Prefer "mkdir -p" because of bugs in GNU install when not running as root
 $mkdir -p foo/bar >/dev/null 2>&1
 if $test -d foo/bar; then
  echo "Great, we can build them using 'mkdir -p'."
  creatdir='mkdir -p'
 else
  case "$creatdir" in
  ")
   if eval "$install -d foo/bar"; $test -d foo/bar; then
    creatdir="install -d"
    echo "It looks like '$creatdir' will do it for us."
   fi
   ;;
  *)
   eval "$creatdir foo/bar" >/dev/null 2>&1
```

```
  if $test -d foo/bar; then
   echo "Ah! We can use '$creatdir' to do just that."
  else
   creatdir="
  fi
  ;;
 esac
fi
$rm
-rf foo
case "$creatdir" in
")
 echo "Heck! Another ancient system lacking the comfort of modern ones!"
@if {test -f ../install.SH}
 echo "You can thank $package for bringing you its own install script!"
 installdir='./install -d'
@else
 echo "We have no choice but to use plain old 'mkdir' -- wish me luck!"
 installdir=mkdir
@end
 ;;
*) installdir="$creatdir";;
esac
;;
*) echo "As you already told me, '$installdir' should work.";;
esac

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/install.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Filexp.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:52:53  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added HOME to the ?T: line since metalint now checks ${HOME}
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/05/06  14:03:00  ram
?RCS: patch23: made sure error status from csh is propagated (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which will expand filenames beginning
?X:
 with tildes.  The script is deleted at the end of Configure.
?X:
?MAKE:Filexp: startsh sed test expr eunicefix
?MAKE: -pick add $@ %<
?F:./filexp
?T:HOME LOGDIR dir me name failed
: set up shell script to do ~ expansion
cat >filexp <<EOSS
$startsh
: expand filename
?X:
?X: The case entries below escape the ~ as some shells have shown expansion
?X: of the ~ during here-doc processing.
?X:
case "\$1" in
\~/*|\~)
 echo \$1 | $sed "s|~|\${HOME-\$LOGDIR}|"
 ;;
\~*)
 if $test -f /bin/csh; then
  /bin/csh -f -c "glob \$1"
  failed=\$?
  echo ""
  exit \$failed
 else
  name=\`$expr x\$1 : '..\([^/]*\)'\`
  dir=\`$sed -n -e "/^\${name}:/{s/^[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\).*"'\$'"/\1/" -e p -e q -e '}' </etc/passwd\`
  if $test ! -d "\$dir"; then
   me=\`basename \$0\`
   echo "\$me: can't locate home directory for: \$name" >&2
   exit 1
  fi
  case "\$1" in
  */*)
   echo \$dir/\`$expr x\$1 : '..[^/]*/\(.*\)'\`
   ;;
  *)
   echo \$dir
   ;;
```

```
  esac
 fi
 ;;
*)
 echo \$1
 ;;
esac
EOSS
chmod
 +x filexp
$eunicefix filexp
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Filexp.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch test
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic links (if they are supported).
  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$rm -f blurfl sym
```

```
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 && $test -f sym; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_who.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:28:50  ram
?RCS: patch61: new computation method avoiding use of temporary file
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:42:34  ram
?RCS: patch23: login name now computed the hard way
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Oldconfig dependency is there to ensure computation occurs after old values
?X: from config.sh have been loaded, so that we can supersede them.
?X:
?MAKE:cf_time
 cf_by: date Oldconfig
?MAKE: -pick add $@ %<
?S:cf_time:
?S: Holds the output of the "date" command when the configuration file was
?S: produced. This is used to tag both config.sh and config_h.SH.
?S:.
?S:cf_by:
?S: Login name of the person who ran the Configure script and answered the
?S: questions. This is used to tag both config.sh and config_h.SH.
```

```
?S:.
?LINT:change LC_ALL LANGUAGE
: who configured the system
?X: Ensure English date -- Jarkko Hietaniemi
cf_time=`LC_ALL=C; LANGUAGE=C; export LC_ALL; export LANGUAGE; $date 2>&1`
?X:
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when logname is not found; e.g.
?X: on SUN-OS 3.2, (logname || whoami) would not execute whoami if logname was
?X: not found. Sigh!
?X:
?X: Convex had a broken logname executable which returned a non-zero status,
?X: and that broke the previous:
?X:   cf_by=`( (logname) 2>/dev/null || whoami) 2>&1`
?X: Switch to emergency
 mode... -- RAM, 19/04/94
?X:
?X: Parentheses needed to avoid error message if the program does not exist.
?X: Uses case instead of $test so it can be put before $test is defined.
?X: Don't redirect to a file because on Ultrix (under script?) logname
?X: outputs a blank line first.  This method will apparently work.
case "$cf_by" in
"")
 cf_by=`(logname) 2>/dev/null`
 case "$cf_by" in
 "")
  cf_by=`(whoami) 2>/dev/null`
  case "$cf_by" in
  "") cf_by=unknown ;;
  esac ;;
 esac ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cf_who.U
No license file was found, but licenses were detected in source scan.

```
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```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/files/fixcpp
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/errnolist.mk
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/makegloss
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/bindex
No license file was found, but licenses were detected in source scan.

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```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_perror.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_link.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_table.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/filexp_path.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysun.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strtod.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getopt.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_systimeb.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_popen.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mboxchar.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_rmdir.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cpp_trad.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setreuid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pwritev.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pidcheck.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/vaproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_linuxstd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_select.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mkdir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_siglist.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strchr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_scorfl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strxfrm.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysndir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_tzmin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_tcgtpgrp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_syssock.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_locconv.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pause.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sbrk.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_rusage.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/defeditor.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_internet.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/nametype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_dup2.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ftrncate.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_values.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cppfilecom.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getpgrp2.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_limits.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mblen.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memcpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_wcstombs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_systypes.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sbrktype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Assert.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_SHM_MAC.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_alarm.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_normsig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setrgid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fgetpos.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strcoll.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysparam.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/vaproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysselct.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_arpainet.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_systable.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_syspoll.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_itimer.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fchmod.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_waitpid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ckeypad.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_mkostemp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_readlink.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setregid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strtok.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/rootid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pipe.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_syslog.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_pipe2.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ffs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strxfrm_l.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fcntl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_drem.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_PORTAR.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sighold.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_munmap.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_msem_lck.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_dbm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/newslib.U
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?RCS: Id
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:21:21 ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 16:02:01 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:

```
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable is noticed.
?X:
?X: To use this
 unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was
?LINT:change td tu
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo "    The $hint value for \$$var on this machine was \"$was\"!" >&4
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Whoa.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
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?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?MAKE:sitehtml1dir sitehtml1direxp installsitehtml1dir: Getfile \
 Setprefixvar prefix siteprefix html1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml1dir=''
?S:sitehtml1dir:
?S: This variable contains the name of the directory in which site-specific
?S: html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml1direxp=''
?S:sitehtml1direxp:
?S: This variable is the same as the sitehtml1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml1dir=''
?S:installsitehtml1dir:
?S: This variable is really the same as sitehtml1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml1dir
?LINT:set sitehtml1dir
?LINT:set sitehtml1direxp
: determine where add-on html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case "$sitehtml1dir" in
'')
   dflt=`echo "$html1dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml1dir ;;
esac
case "$dflt" in
''|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific html pages should be installed?'
. ./getfile
```

```
prefixvar=sitehtml1dir
. ./setprefixvar

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitehtml1dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sysman: test
 Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1 /usr/share/man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
```

```
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form." >&4
fi

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sysman.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: vendorprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:usevendorprefix vendorprefix vendorprefixexp +oldvendorprefix: \
 Getfile Loc Oldconfig cat prefix Myread
?MAKE: -pick add $@ %<
?S:usevendorprefix:
?S: This variable tells whether the vendorprefix
?S: and consequently other vendor* paths are in use.
?S:.
?S:vendorprefix:
?S: This variable holds the full absolute path of the directory below
?S: which
 the vendor will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:vendorprefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the vendor will install add-on packages.  Derived from vendorprefix.
?S:.
?S:oldvendorprefix:
?S: This variable is set non-null if the vendorprefix was previously defined
```

```
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the vendorprefix variables
$cat <<EOM

The installation process will also create a directory for
vendor-supplied add-ons.  Vendors who supply perl with their system
may find it convenient to place all vendor-supplied files in this
directory rather than in the main distribution directory.  This will
ease upgrades between binary-compatible maintenance versions of perl.

Of course you may also use these directories in whatever way you see
fit.  For example, you might use them to access modules shared over a
company-wide network.

The default answer should be
 fine for most people.
This causes further questions about vendor add-ons to be skipped
and no vendor-specific directories will be configured for perl.

EOM
rp='Do you want to configure vendor-specific add-on directories?'
case "$usevendorprefix" in
define|true|[yY]*) dflt=y ;;
*) : User may have set vendorprefix directly on Configure command line.
 case "$vendorprefix" in
 ''|' ') dflt=n ;;
 *) dflt=y ;;
 esac
 ;;
esac
. ./myread
case "$ans" in
[yY]*) fn=d~+
 rp='Installation prefix to use for vendor-supplied add-ons?'
 case "$vendorprefix" in
 '') dflt="$prefix" ;;
 *)  dflt=$vendorprefix ;;
 esac
 . ./getfile
 : XXX Prefixit unit does not yet support siteprefix and vendorprefix
 oldvendorprefix=''
 case "$vendorprefix" in
 '') ;;
 *) case "$ans" in
  "$prefix") ;;
  *) oldvendorprefix="$prefix";;
  esac
```

```
 ;;
 esac
 usevendorprefix="$define"
 vendorprefix="$ans"
 vendorprefixexp="$ansexp"
 ;;
*) usevendorprefix="$undef"
 vendorprefix=''
 vendorprefixexp=''
 ;;
esac
```

Found in path(s):

```
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorprefix.U
```

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```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall:
 Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
```

```
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 '') config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
 test "$override" && . ./optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54  ram
?RCS: patch30: added /usr/shlib to
```

```
 glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth: \
 usrinc incpath test cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform,
 for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?T: xxx dlist
?LINT:use usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
```

```
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib
 is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth="
?INIT:
: Set private lib path
case "$plibpth" in
'') if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
  plibpth="$incpath/usr/lib /usr/local/lib /usr/ccs/lib"
 fi;;
esac
case "$libpth" in
' ') dlist='';;
'') dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
libpth=''
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions
 of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.
```

```
EOM
case "$libpth" in
') dflt='none';;
*)
?X: strip leading space
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libpth.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: html1dir.U,v $
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html1dir.U,v $
?RCS:
?MAKE:html1dir html1direxp installhtml1dir: cat Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:html1dir="
?S:html1dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe whole programs, not libraries or modules.  It
?S: is intended to correspond roughly to section 1 of the Unix
?S: manuals.
?S:.
?D:html1direxp="
?S:html1direxp:
?S: This
```

```
 variable is the same as the html1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml1dir="
?S:installhtml1dir:
?S: This variable is really the same as html1direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html1direxp
?LINT:set installhtml1dir
: determine where html pages for programs go
set html1dir html1dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for programs in $spackage, indicate
the appropriate directory here.  To skip installing html files,
answer "none".
EOM
case "$html1dir" in
"|none|$undef|' ') dflt=none ;;
*) dflt=$html1dir ;;
esac
fn=dn+~
rp="Directory for the main $spackage html pages?"
. ./getfile
prefixvar=html1dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html1dir" = "X" && html1dir=' '

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/html1dir.U
No license file was found, but licenses were detected in source scan.

/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
```

*
* $Log: setsid.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:47 ram
* patch16: created
*
*/

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/setsid.C
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10 1997/02/28 15:56:48 ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9 1995/07/25 14:11:56 ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8 1995/05/12 12:20:47 ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun like everybody
?RCS: patch54: can now grok
 linux nm output with lead __IO (ADO)
?RCS: patch54: added support for linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7 1994/10/29 16:23:40 ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6 1994/08/29 16:28:10 ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5 1994/06/20 07:03:24 ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4 1994/05/06 15:06:33 ram

```
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc libnames +nm_extract: echo n c rm test grep Getfile Myread \
 Oldconfig Loc sed libs incpath libpth ar runnm nm nm_opt nm_so_opt \
 contains xlibpth so osname trnl tr sort uniq _o _a
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:libnames:
?S: The constructed list of library names.  Normally empty, but hint files
?S: may set this for later perusal by Configure.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:change nm_opt runnm
?INIT:libnames="
: Figure out where the libc is located
case
 "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
: get list of predefined functions in a handy place
echo " "
case "$libc" in
") libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
```

```
esac
case "$libs" in
") ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib"
 ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
```

```
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work
 from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set /usr/ccs/lib/libc.$so
 $test -r $1 || set /lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo
 "Your C library seems to be in both /lib/clib and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
```

```
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick
 $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt="
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
```

```
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case
 $# in 1) xxx=file; esac
echo "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
```

```
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval
 "<libc.tmp $com >libc.list"; echo "done." >&4'
?X: BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HPUX10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
xxx='[ADTSIW]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *_[_.]*//p' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval
 $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
```

```
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null
 2>&1; then
  eval $xrun
?X: OS/2 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[        ]*D[     ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed
 -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
```

```
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if
    bld t $libc | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo
 "Ok." >&4
   else
    echo "That didn't work either." >&4
    echo "No problem, I'll be compiling test programs then..." >&4
    runnm=false
   fi
  fi
 fi
fi
nm_extract="$com"
if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
fi
?X: remember, indentation is wrong on purpose--RAM
;;
esac
$rm -f libnames libpath

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libc.U
```

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

?RCS: $Id: h_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_fcntl.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:12 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_fcntl: Nothing
?MAKE: -pick add $@ %<
?S:h_fcntl:
?S: This is variable gets set in various places to tell i_fcntl that
?S: <fcntl.h> should be included.
?S:.
: Initialize h_fcntl
h_fcntl=false

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/h_fcntl.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman1dir siteman1direxp installsiteman1dir: Getfile \
 Setprefixvar prefix siteprefix man1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman1dir=''
?S:siteman1dir:
?S: This variable contains the name of the directory in which site-specific
?S: manual source pages are to be put. It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.

```
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman1direxp="
?S:siteman1direxp:
?S: This variable is the same as the siteman1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman1dir="
?S:installsiteman1dir:
?S: This variable is really the same as siteman1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman1dir
?LINT:set siteman1dir
?LINT:set siteman1direxp
: determine where add-on manual pages go
case "$siteman1dir" in
'') dflt=`echo $man1dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman1dir ;;
esac
case "$dflt" in
'|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific manual pages should be installed?'
. ./getfile
prefixvar=siteman1dir
. ./setprefixvar

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/siteman1dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
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?RCS:
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```

```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which is used to locate the header
?X: files
 in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm +usrinc awk cat startsh \
 cppstdin cppminus +cppflags eunicefix osname
?MAKE: -pick add $@ %<
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg cppfilter testaccess status usrincdir
: determine filename position in cpp output
echo " "
echo "Computing filename position in cpp output for #include
 directives..." >&4
echo '#include <stdio.h>' > foo.c
case "$osname" in
vos)
 testaccess=-e
?X: VOS: path component separator is >
```

```
 cppfilter="tr '\\\\>' '/' |"
 ;;
*)
 testaccess=-r
 cppfilter="
 ;;
esac
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d ""\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor will know how to find those headers. Thank you NexT!
: locate header file
$cat
 >findhdr <<EOF
$startsh
wanted=\$1
name="
for usrincdir in $usrinc; do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
```

```
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d '"'\`
 case "\$name" in
 *[/\\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac
done
?X: status = 0: grep returned 0 lines, case statement not executed
?X: status = 1: headerfile found
?X: status = 2: while loop executed, no headerfile found
status=\$?
$rm -f foo\$\$.c
if test \$status -eq 1; then
 exit 0
fi
exit 1
EOF
chmod +x findhdr
$eunicefix findhdr

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Findhdr.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
```

```
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " " >&4
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action." >&4
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
contains=./contains
chmod +x $contains
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
```

```
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir
 man3direxp man3ext installman3dir: afs cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile prefix Prefixit Prefixup \
 d_flexfnam privlib Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual
 page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
```

```
EOM
 case "$man3dir" in
 '') man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 '') man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: We dont use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with TCL man pages.
?X: However, something like /opt/perl/man/man3
 is fine.
case "$man3dir" in
'') case "$prefix" in
 *$package*) dflt=`echo $man1dir |
   $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'` ;;
 *) dflt="$privlib/man/man3" ;;
 esac
 ;;
' ') dflt=none;;
*) dflt="$man3dir" ;;
esac
echo " "

fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
if test "X$man3direxp" != "X$ansexp"; then
 installman3dir='
fi

man3dir="$ans"
man3direxp="$ansexp"
case "$man3dir" in
'') man3dir=' '
 installman3dir='';;
esac
```

```
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman3dir" in
 '') dflt=`echo $man3direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman3dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman3dir="$ans"
else
 installman3dir="$man3direxp"
fi

: What suffix
 to use on installed man pages

case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 '') case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
```

```
 ;;
esac

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/man3dir.U
No license file was found, but licenses were detected in source scan.

?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:     You may distribute under the terms of either the GNU General Public

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/archlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/a_dvisory/multiarch.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perlpath.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/privlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_portable.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/startperl.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef:
```

```
 cppstdin cppminus cppflags rm contains Oldconfig
?MAKE: -pick add $@ %<
?F:!temp.c
?LINT:define typedef
?V:typedef
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: wether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?T:type var def inclist varval inc
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval
 "$var=\$varval";;
esac'

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Typedef.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Setvar.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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```

?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Setvar.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 15:58:28 ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:16 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X:
 To use it, say:
?X: val=<value>
?X: set d_variable
?X: eval $setvar
?X:
?MAKE:Setvar: Whoa
?MAKE: -pick add $@ %<
?LINT:define setvar
?S:setvar:
?S: This shell variable is used internally by Configure to set a value
?S: to a given symbol that is defined or not. A typical use is:
?S: val=<value computed>
?S: set d_variable
?S: eval $setvar
?S: That will print a message in case the $val value is not the same
?S: as the previous value of $d_variable.
?S:.
?V:setvar:val
?T:var was td tu
: function used to set '$1' to '$val'
setvar='var=$1; eval "was=\$$1"; td=$define; tu=$undef;
case "$val$was" in
$define$undef) . ./whoa; eval "$var=\$td";;
$undef$define) . ./whoa; eval "$var=\$tu";;
*) eval "$var=$val";;
esac'

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Setvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inlibc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inlibc.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:55:08  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks for the definition of a given function.
?X:
?X: To use it, say:
?X: set function d_func
?X: eval $inlibc
?X:
?MAKE:Inlibc: Csym Whoa Oldconfig
?MAKE: -pick add $@ %<
?LINT:define inlibc
?V:inlibc
?S:inlibc:
?S: This
 shell variable is used internally by Configure to check
?S: wether a given function is defined or not. A typical use is:
?S:  set function d_func
?S:  eval $inlibc
?S: That will print a message, saying wether function was found or
?S: not and set d_func accordingly.
?S:.
?T:was tx sym tres td tu var
: define an is-in-libc? function
inlibc='echo " "; td=$define; tu=$undef;
sym=$1; var=$2; eval "was=\$$2";
tx=yes;
case "$reuseval$was" in
true) ;;
true*) tx=no;;
esac;
case "$tx" in
yes)
```

```
 set $sym tres -f;
 eval $csym;
 case "$tres" in
 true)
  echo "$sym() found." >&4;
  case "$was" in $undef) . ./whoa; esac; eval "$var=\$td";;
 *)
  echo "$sym() NOT found." >&4;
  case "$was" in $define) . ./whoa; esac; eval "$var=\$tu";;
 esac;;
*)
 case "$was" in
 $define) echo "$sym() found." >&4;;
 *) echo "$sym() NOT found." >&4;;
 esac;;
esac'

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Inlibc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: html3dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html3dir.U,v $
?RCS:
?MAKE:html3dir html3direxp installhtml3dir: cat sed Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup html1dir
?MAKE: -pick add $@ %<
?Y:TOP
?D:html3dir="
?S:html3dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe libraries or modules.  It is intended to
?S: correspond roughly to section 3 of the Unix manuals.
?S:.
?D:html3direxp="
?S:html3direxp:
?S: This variable
```

```
 is the same as the html3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml3dir="
?S:installhtml3dir:
?S: This variable is really the same as html3direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html3direxp
?LINT:set installhtml3dir
: determine where html pages for libraries and modules go
set html3dir html3dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for modules associated with $spackage,
indicate the appropriate directory here.  To skip installing html files,
answer "none".
EOM
: There is no obvious default.  If they have specified html1dir, then
: try to key off that, possibly changing .../html1 into .../html3.
case "$html3dir" in
'') html3dir=`echo "$html1dir" | $sed 's/1$/3$/'` ;;
*) dflt=$html3dir ;;
esac
fn=dn+~
rp="Directory for the $spackage module
 html pages?"
. ./getfile
prefixvar=html3dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html3dir" = "X" && html3dir=' '

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/html3dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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```

?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0.1.1 1994/10/31 09:47:29 ram
?RCS: patch44: leading comment states this unit comes before option processing
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:07 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end. This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before
 any Configure switch processing.
?X:
?MAKE:Myinit: Init
?MAKE: -pick add $@ %<
?LINT: nocomment

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Myinit.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Hasproto.U $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasproto string that is used internally
?X: by Configure to check if this system has a prototype for a
?X: particular function
?X:
?X: To use it, say something like:
?X: set d_getnetent_proto getnetent $i_netdb netdb.h
?X: eval $hasproto
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/types.h
?X: $i_systime sys/time.h
?X: $i_sysselct sys/select.h
?X: $i_netdb netdb.h"
?X: set d_getnetent_proto getnetent $hdrs
?X: eval $hasproto
?X:
?X: There is also an 'escape' hatch built in. If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally

```
?X: into the test program.  See Protochk.U for more details.
?X:
?MAKE:Hasproto:
 Setvar cppstdin cppflags cppminus contains rm_try test
?MAKE: -pick add $@ %<
?T:func varname
?F:!try.c
?V:hasproto
: Define hasproto macro for Configure internal use
hasproto='varname=$1; func=$2; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 literal) echo "$2" ;;
 esac ;
   shift 2;
done > try.c;
$cppstdin $cppflags $cppminus < try.c > tryout.c 2>/dev/null;
if $contains "$func.*(" tryout.c >/dev/null 2>&1; then
 echo "$func() prototype found.";
 val="$define";
else
 echo "$func() prototype NOT found.";
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try tryout.c'

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Hasproto.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
```

```
?MAKE:trnl: Nothing
?MAKE: -pick add $@ %<
?S:trnl:
?S: This variable contains the value to be passed to the tr(1)
?S: command to transliterate a newline.  Typical values are
?S: '\012' and '\n'.  This is needed for EBCDIC systems where
?S: newline is not necessarily '\012'.
?S:.
?T: DJGPP
: Find the appropriate value for a newline for tr
?X: We can't
 use $tr since that would cause a circular dependency via Myread
?X: dos djgpp uses '\015\012', but reportedly is happy with '\012' in the
?X: tr command.  I don't know why it passes the '\n' test but later
?X: refuses to work correctly with it.  --AD  6/14/98
if test -n "$DJGPP"; then
    trnl='\012'
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\n' x 2>/dev/null`" in
 foox) trnl='\n' ;;
 esac
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\012' x 2>/dev/null`" in
 foox) trnl='\012' ;;
 esac
fi
if test X"$trnl" = X; then
    case "`echo foo | tr '\r\n' xy 2>/dev/null`" in
    fooxy) trnl='\n\r' ;;
    esac
fi
if test X"$trnl" = X; then
 cat <<EOM >&2

$me: Fatal Error: cannot figure out how to translate newlines with 'tr'.

EOM
 exit 1
fi

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/trnl.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Rcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Rcs.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:15 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is a unit that helps people who write SH scripts and keep them under
?X: RCS, but don't think to protect the $Log and other $Id keywords from
?X: variable substitution (or people like me who do not like to).
?X:
?MAKE:Author Date Header Id Locker Log RCSfile Revision Source State: Oldconfig
?MAKE: -pick weed $@ %<
?LINT:describe Author
 Date Header Id Locker Log RCSfile Revision Source State
: preserve RCS keywords in files with variable substitution, grrr
?Author:Author='$Author'
?Date:Date='$Date'
?Header:Header='$Header'
?Id:Id='$Id'
?$Locker'
?Log:Log='$Log'
?RCSfile:RCSfile='$RCSfile'
?Revision:Revision='$Revision'
?Source:Source='$Source'
?State:State='$State'

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Rcs.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: lib.U,v 3.0.1.3 1995/09/25 09:16:47 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lib.U,v $

?RCS: Revision 3.0.1.3 1995/09/25 09:16:47 ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2 1995/01/30 14:38:08 ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1 1994/08/29 16:27:40 ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0 1993/08/18 12:08:56 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT:
 empty
?X:?MAKE:lib libexp: Getfile Loc Oldconfig Prefixit Prefixup prefixexp
?X:?MAKE: -pick add $@ %<
?X:?Y:TOP
?X:?S:lib:
?X:?S: This variable holds the name of the directory in which the user wants
?X:?S: to put public library files for the package in question. It is most
?X:?S: often a local directory such as /usr/local/lib. Programs using this
?X:?S: variable must be prepared to deal with filename expansion.
?X:?S:.
?X:?S:libexp:
?X:?S: This variable is the same as the lib variable, but is filename expanded
?X:?S: at configuration time, for convenient use in your makefiles.
?X:?S:.
?X:: determine where public libraries go
?X:set lib lib
?X:eval $prefixit
?X:case "$lib" in
?X:")
?X: dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
?X: set dflt
?X: eval $prefixup
?X: ;;
?X:*) dflt="$lib";;
?X:esac
?X:echo " "
?X:fn=d~
?X:rp='Where do you want to put the public libraries?'
?X:. ./getfile
?X:lib="$ans"
?X:libexp="$ansexp"

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/nullified/lib.U

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

```
?RCS: $Id: Begin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Begin.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:56:35  ram
?RCS: patch61: added Extractall dependency
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:25:08  ram
?RCS: patch49: avoid an empty rmlist: systems might choke on it (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:32:20  ram
?RCS: patch44: created
?RCS:
?X:
?X: This file comes after option processing had been done and after all
?X: the default values have been set up. It marks the beginning
 of questions.
?X: It is important that Options be listed *after* Myinit to ensure that the
?X: default initializations performed by Init and Myinit will not clobber
?X: any setting done on the command line via -D or -U.
?X:
?MAKE:Begin: Myinit Options package Extractall
?MAKE: -pick add $@ %<
: Eunice requires " " instead of "", can you believe it
echo " "
: Here we go...
echo "Beginning of configuration questions for $package."

?X: Make sure the rm below is given a non-empty list for some systems.
?X: This is run only when within the UU directory, hence we can safely
?X: attempt to rm a non-existent 'X' file...
trap 'echo " "; test -d ../UU && rm -rf X $rmlist; exit 1' 1 2 3 15
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Begin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man3dir.U,v 3.1 1999/07/08 20:52:19 doughera Exp doughera $
?RCS:
```

```
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead
 of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir man3direxp man3ext installman3dir: cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile Setprefixvar Prefixit Prefixup \
 d_flexfnam privlib Myread test
?MAKE: -pick add $@ %<
?Y:TOP
?D:man3dir="
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man3direxp="
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman3dir="
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only
 points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
```

```
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
?T:prog tdflt
?LINT:change prefixvar
?LINT:set man3direxp
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: In 5.005_57 and earlier, I had the following notes:
?X:
 We do not use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with Tcl man pages.
?X: However, something like /opt/perl/man/man3 is fine.
?X:
?X: However, opinion seems to be shifting such that 'man POSIX' ought
?X: to just work.  -- Andy Dougherty  July 8, 1999
```

```
?X:
?X: remove any trailing -3.0 or other version indication from $package
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$man3dir" in
'') dflt=`echo "$man1dir" | $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'`
 if $test -d "$privlib/man/man3"; then
  cat <<EOM >&4

WARNING:  Previous versions of perl installed man3 pages into
$privlib/man/man3.  This version will suggest a
new default of $dflt.
EOM
  tdflt=$dflt
  dflt='n'
  rp='Do you wish to preserve the old behavior?(y/n)'
  . ./myread
  case "$ans" in
  y*) dflt="$privlib/man/man3"
 ;;
  *)  dflt=$tdflt ;;
  esac
   fi
 ;;
*) dflt="$man3dir" ;;
esac
case "$dflt" in
' ') dflt=none ;;
esac
echo " "
fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
prefixvar=man3dir
. ./setprefixvar

case "$man3dir" in
'') man3dir=' '
 installman3dir='';;
esac

: What suffix to use on installed man pages
case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
```

```
") case "$man3dir" in
 *3)  dflt=3 ;;
 *3p) dflt=3p ;;
 *3pm) dflt=3pm ;;
 *l) dflt=l;;
 *n) dflt=n;;
 *o) dflt=o;;
 *p) dflt=p;;
 *C) dflt=C;;
 *L) dflt=L;;
 *L3) dflt=L3;;
 *) dflt=3;;
 esac
 ;;
*) dflt="$man3ext";;
esac
. ./myread
man3ext="$ans"
;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/man3dir.U
No license file was found, but licenses were detected in source scan.

```
/* $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $
*
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*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: Jmake.rules,v $
* Revision 3.0.1.7  2004/08/22 08:28:58  ram
* patch71: random cleanup
*
* Revision 3.0.1.6  1997/02/28  14:56:01  ram
* patch61: now handles USRINC for dependencies
* patch61: smarter about dependencies computation
*
* Revision 3.0.1.5  1995/09/25  09:07:19  ram
* patch59: smarter sed command to strip /usr/include dependencies
*
* Revision 3.0.1.4  1995/07/25  13:33:59  ram
* patch56: install of script man pages can now cope with missing files
```

```
* patch56: the clobber
 target now removes the .config directory as well
*
* Revision 3.0.1.3  1995/03/21  08:35:28  ram
* patch52: suppressed extra argument to NormalProgramTarget call
*
* Revision 3.0.1.2  1995/01/11  14:49:55  ram
* patch45: new macros ShellScriptTargetExt and SimpleShellScriptTargetExt
* patch45: directory installation is now made via INSTALLDIR (Configure)
*
* Revision 3.0.1.1  1994/10/29  15:46:30  ram
* patch36: added RemoteDependency rule
*
* Revision 3.0  1993/08/18  12:04:14  ram
* Baseline for dist 3.0 netwide release.
*
*/
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/files/Jmake.rules
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitebin.U,v $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitebin.U,v $
?RCS:
?MAKE:sitebin sitebinexp installsitebin : Getfile Oldconfig \
 Setprefixvar siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitebin="
?S:sitebin:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard distribution will put nothing
 in this directory.
?S: After perl has been installed, users may install their own local
?S: executables in this directory with
```

```
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitebinexp=''
?S:sitebinexp:
?S: This is the same as the sitebin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitebin=''
?S:installsitebin:
?S: This variable is usually the same as sitebinexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitebin
?LINT:set sitebin
?LINT:set sitebinexp
: determine where add-on public executables go
case "$sitebin" in
'') dflt=$siteprefix/bin ;;
*) dflt=$sitebin ;;
esac
fn=d~
rp='Pathname where the add-on public executables should be installed?'
. ./getfile
prefixvar=sitebin
. ./setprefixvar

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitebin.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:versiononly: cat Myread Setvar Devel
?MAKE: -pick add $@ %<
?LINT:set versiononly
?Y:TOP
?S:versiononly:
```

```
?S: If set, this symbol indicates that only the version-specific
?S: components of a perl installation should be installed.
?S: This may be useful for making a test installation of a new
?S: version without disturbing the existing installation.
?S: Setting versiononly is equivalent to setting installperl's -v option.
?S: In particular, the non-versioned scripts and programs such as
?S: a2p, c2ph, h2xs, pod2*, and perldoc
 are not installed
?S: (see INSTALL for a more complete list).  Nor are the man
?S: pages installed.
?S: Usually, this is undef.
?S:.
?LINT:extern inc_version_list
?LINT:change inc_version_list
?LINT:extern inc_version_list_init
?LINT:change inc_version_list_init
?LINT:extern version
: determine whether to use a version number suffix for installed binaries
echo " "
$cat <<EOM
Do you want to use a version number suffix for installed binaries? This
will install 'perl$version' instead of 'perl', and likewise for other
binaries like 'perldoc' and 'cpan'. This allows many versions of perl
to be installed side-by-side. Unless you are a developer, you probably
do *not* want to do this.
EOM
case "$versiononly" in
"$define"|[Yy]*|true) dflt='y' ;;
*) dflt='n';
esac
rp="Do you want to use a version number suffix for installed binaries?"
. ./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef" ;;
esac
set versiononly
eval $setvar

case "$versiononly" in
"$define") inc_version_list="
        inc_version_list_init=0
       ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/versiononly.U

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?RCS: $Id: prototype.U,v 3.0.1.3 1994/05/06 15:11:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3 1994/05/06 15:11:49 ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2 1994/01/24 14:15:36 ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1 1993/08/25 14:03:12 ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:36 ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:prototype: Nothing
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
?S: indicates the C compiler can handle function prototypes.
?S:.
: stub, never used
prototype=nothing

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/prototype.U
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/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
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* of the source tree for dist 4.0.

*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1 1994/01/24 13:58:37 ram
* patch16: created
*
*/

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/dup2.C
No license file was found, but licenses were detected in source scan.

?RCS: $Id: spitshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: spitshell.U,v $
?RCS: Revision 3.0.1.4 1997/02/28 16:22:12 ram
?RCS: patch61: removed useless chatter as this is now done very early
?RCS:
?RCS: Revision 3.0.1.3 1995/01/11 15:37:01 ram
?RCS: patch45: use 'test -f' instead of 'test -r' for exec-only cat progs (WED)
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2 1994/08/29 16:33:00 ram
?RCS: patch32: don't create spitshell under the UU directory
?RCS:
 patch32: allow for cat in /bin or /usr/bin
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:12:58 ram
?RCS: patch10: made #!-failure message more friendly (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:49 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:spitshell shsharp sharpbang: eunicefix sh Head
?MAKE: -pick add $@ %<
?S:spitshell:
?S: This variable contains the command necessary to spit out a runnable
?S: shell on this system. It is either cat or a grep -v for # comments.
?S:.

```
?S:shsharp:
?S: This variable tells further Configure units whether your sh can
?S: handle # comments.
?S:.
?S:sharpbang:
?S: This variable contains the string #! if this system supports that
?S: construct.
?S:.
?F:!sharp
?T:xcat p
?X: "paths" comes from Head
?LINT:extern paths _exe
: see if sh knows # comments
?X: This is loaded up early, so avoid being chatty.
?X: echo " "
?X: echo "Checking your $sh to see if it knows about # comments..." >&2
if `$sh -c '#' >/dev/null 2>&1`; then
?X: echo
 "Your $sh handles # comments correctly."
 shsharp=true
 spitshell=cat
?X: echo " "
?X: echo "Okay, let's see if #! works on this system..."
 xcat=/bin/cat
 test -f $xcat$_exe || xcat=/usr/bin/cat
 if test ! -f $xcat$_exe; then
  for p in `echo $PATH | sed -e "s/$p_/ /g"` $paths; do
   if test -f $p/cat$_exe; then
    xcat=$p/cat
    break
   fi
  done
  if test ! -f $xcat$_exe; then
   echo "Can't find cat anywhere!"
   exit 1
  fi
 fi
 echo "#!$xcat" >sharp
 $eunicefix sharp
 chmod +x sharp
 ./sharp > today 2>/dev/null
 if test -s today; then
?X:  echo "It does."
  sharpbang='#!'
 else
  echo "#! $xcat" > sharp
  $eunicefix sharp
  chmod +x sharp
```

```
  ./sharp > today 2>/dev/null
  if test -s today; then
?X:   echo "It does."
    sharpbang='#! '
  else
?X:   echo "Okay, let's see if #! works on this system..."
?X:   echo "It's just a comment."
    sharpbang=': use '
  fi
 fi
else
 echo " "
 echo "Your $sh doesn't grok # comments--I will strip them later on."
 shsharp=false
?X: The
 spitshell script will be perused, so leave it out the UU directory
 cd ..
 echo "exec grep -v '^[  ]*#'" >spitshell
 chmod +x spitshell
 $eunicefix spitshell
 spitshell=`pwd`/spitshell
 cd UU
 echo "I presume that if # doesn't work, #! won't work either!"
 sharpbang=': use '
fi
rm -f sharp today

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/spitshell.U
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?RCS: $Id: make.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: make.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:09:40  ram
?RCS: patch61: created
?RCS:
?MAKE:make_set_make : Loc rm sed make
?MAKE: -pick add $@ %<
```

```
?S:make_set_make:
?S: Some versions of 'make' set the variable MAKE.  Others do not.
?S: This variable contains the string to be included in Makefile.SH
?S: so that MAKE is set if needed, and not if not needed.
?S: Possible values are:
?S:
?S: make_set_make='#'  #
 If your make program handles this for you,
?S:
?S: make_set_make="MAKE=$make" # if it doesn't.
?S:
?S: This uses a comment character so that we can distinguish a
?S: 'set' value (from a previous config.sh or Configure -D option)
?S: from an uncomputed value.
?S:.
?LINT: extern MAKE
?LINT: change MAKE
?X: This test is based on one from an autoconf-generated configure
?X: script. Autoconf stole a lot from Configure, but now it's our
?X: turn to do so... ;-) -- RAM, 21/02/97
: check whether make sets MAKE
echo " "
echo "Checking if your $make program sets \$(MAKE)..." >&4
case "$make_set_make" in
")
?X: Use sed so we don't have a line begining with @echo.  Metaconfig
?X: will think that's a command like @if or @end.
 $sed 's/^X //' > testmake.mak << 'EOF'
Xall:
X  @echo 'maketemp="$(MAKE)"'
EOF
?X: GNU make sometimes prints "make[1]: Entering...", which would confuse us
 case "`$make -f testmake.mak 2>/dev/null`" in
 *maketemp=*) make_set_make='#' ;;
 *) make_set_make="MAKE=$make" ;;
 esac
 $rm
 -f testmake.mak
 ;;
esac
case "$make_set_make" in
'#') echo "Yup, it does.";;
*) echo "Nope, it doesn't.";;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/make.U

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```
?RCS: $Id: Instruct.U,v 3.0.1.3 1997/02/28 15:02:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?X:
?X: This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Myread Configdir Devel contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
```

```
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a
 command.  Many of the questions will have default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp="
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Every time there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer
 will remain unchanged
and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
```

Unix system. If despite that it blows up on yours, your best bet is to edit
Configure and run it again. If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand. Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in
 C programs. You may edit
  any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently. The easiest thing to do is to edit config.sh and rerun all the SH
files. Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Instruct.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: kernel.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: kernel.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:54 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:kernel: Getfile test
?MAKE: -pick add $@ %<
?S:kernel:
?S: This variable becomes the (fully rooted) path name of the kernel.

```
?S:.
: find the name of the kernel.
echo " "
case "$kernel" in
")
 if $test -r /unix; then
  dflt=/unix
 elif $test -r /vmunix; then
  dflt=/vmunix
 elif $test -r /xenix; then
  dflt=/xenix
 elif $test -r /mach; then
  dflt=/mach
 elif
 $test -r /dgux; then
  dflt=/dgux
 elif $test -r /hp-ux; then
  dflt=/hp-ux
 elif $test -r /syst; then
  dflt=/syst
 elif $test -r /arix; then
  dflt=/arix
 elif $test -r /irix; then
  dflt=/arix
 else
  dflt='unknown'
  set X /*x
  shift
  case $# in
  1)
   if $test -r "$1"; then
    dflt="$1"
   fi
   ;;
  esac
 fi
 ;;
*)
 dflt="$kernel"
 ;;
esac
fn=f
rp='What is the name of your kernel?'
. ./getfile
kernel="$ans"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/kernel.U

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

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat groupcat hostcat:
 Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S:.
: see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
```

```
 if $test -f /usr/etc/nibindd; then
  echo
 " "
  echo "I'm fairly confident you're on a NeXT."
@if passcat || groupcat
  echo " "
  rp='Do you get the passwd file via NetInfo?'
  dflt=y
  case "$passcat" in
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) passcat='nidump passwd .'
@if groupcat
    echo "(Assuming /etc/group is also distributed.)"
    groupcat='nidump group .'
@end
    ;;
  *) echo "You told me, so don't blame me."
    case "$passcat" in
    nidump*) passcat="
@if groupcat
      groupcat=";;
@end
    esac
@if groupcat
    echo "(Assuming /etc/group is handled the same way.)"
@end
    ;;
  esac
@end
@if hostcat
  echo " "
  rp='Do you get the hosts file via NetInfo?'
  dflt=y
  case "$hostcat" in
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) hostcat='nidump hosts .';;
  *) case "$hostcat" in
   nidump*) hostcat=";;
```

```
  esac
  ;;
 esac
@end
 fi
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ")
 if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
  else
    dflt=n
  fi;;
 *) dflt=n;;
 esac
 echo " "
 rp='Are you getting the passwd file via yellow pages?'
 . ./myread
 case "$ans" in
 y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
 *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
 esac
 ;;
esac
@end
@if hostcat
 case "$hostcat" in
 nidump*) ;;
 *)
  case "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
  else
```

```
   dflt=n
  fi;;
 *) dflt=n;;
 esac
 echo " "
 rp='Are you getting the hosts file via yellow pages?'
 . ./myread
 case "$ans" in
 y*) hostcat='ypcat hosts';;
 *) hostcat='cat /etc/hosts';;
 esac
 ;;
esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") hostcat=':'
 $test -f /etc/hosts && hostcat='cat
 /etc/hosts';;
esac
case "$groupcat" in
") groupcat=':'
 $test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") passcat=':'
 $test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extractall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
```

```
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure
 proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall: Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 '') config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
?X: extract has to be run from the top directory, not within UU.
 . UU/optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perl5.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andrew Dougherty
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
```

```
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perl5.U,v $
?RCS:
?X:
?X: The purpose of this unit is to locate a previously installed
?X: version of perl5 suitable for running inc_version_list.U.
?X: We check for 5.005 and later because inc_version_list is
?X: irrelevant for earlier versions.
?X:
?MAKE:perl5: path_sep binexp test sed exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:perl5:
?S: This variable contains the full path (if any) to a previously
?S: installed perl5.005 or later suitable for running the script
?S: to determine inc_version_list.
?S:.
?T: tdir
: Find perl5.005 or later.
echo "Looking for a previously installed perl5.005 or later... "
case "$perl5" in
'') for tdir in `echo "$binexp$path_sep$PATH" | $sed "s/$path_sep/
 /g"`; do
  : Check if this perl is recent and can load a simple module
  if $test -x $tdir/perl$exe_ext && $tdir/perl -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl
   break;
  elif $test -x $tdir/perl5$exe_ext && $tdir/perl5 -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl5
   break;
  fi
 done
 ;;
*) perl5="$perl5"
 ;;
esac
case "$perl5" in
'') echo "None found.  That's ok.";;
*) echo "Using $perl5." ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/perl5.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:package spackage:
 Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?C:PACKAGE:
?C: This variable contains the name of the package being built.
?C:.
?H:#define PACKAGE "$package"
?H:.
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
```

```
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo
 $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/package.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Configdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Configdir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  14:58:36  ram
?RCS: patch61: have README explicitly mention the package name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Configdir: package
?MAKE: -pick add $@ %<
: create .config dir to save info across Configure sessions
test -d ../.config || mkdir ../.config
cat >../.config/README <<EOF
This directory created by Configure to save
 information that should
persist across sessions for $package.

You may safely delete it if you wish.
EOF
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Configdir.U
No license file was found, but licenses were detected in source scan.

```
# $Id: makedepend.sh,v 3.0.1.1 1994/01/24 14:00:05 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedepend.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:05  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:37  ram
# Baseline for dist 3.0 netwide release.
#
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/makedepend.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setprefixvar.U,v 3.0 2006/04/01 17:25:29 hmbrand $
?RCS:
?RCS: Copyright (c) 2006-2006, H.Merijn Brand & Nicholas Clark
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:   You may distribute under the terms of either the GNU General Public
?RCS:   License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit sets up the scripts installprefix and setprefixvar, so code
?X: in other parts can be more simple and maintainable
?X:
?MAKE:Setprefixvar: Myread Getfile startsh eunicefix test \
 prefix prefixexp installprefix installprefixexp
?MAKE: -pick add $@ %<
?LINT:extern prefixvar
?X: metalint still sees "`\$${prefixvar}exp`" as variable :(
?T:prefixvarexp
?F:./setprefixvar
?F:./installprefix
: Perform
 the prefixexp/installprefixexp correction if necessary
cat <<EOS >installprefix
$startsh
```

```
EOS
cat <<'EOSC' >>installprefix
: Change installation prefix, if necessary.
if $test X"$prefix" != X"$installprefix"; then
  eval "install${prefixvar}=\`echo \$${prefixvar}exp | sed \"s#^\$prefixexp#\$installprefixexp#\"\`"
else
  eval "install${prefixvar}=\"\$${prefixvar}exp\""
fi
EOSC
chmod +x installprefix
$eunicefix installprefix

: Set variables such as privlib and privlibexp from the output of ./getfile
: performing the prefixexp/installprefixexp correction if necessary.
cat <<EOS >setprefixvar
$startsh
EOS
cat <<'EOSC' >>setprefixvar
eval "${prefixvar}=\"\$ans\""
eval "${prefixvar}exp=\"\$ansexp\""
. ./installprefix
EOSC
chmod +x setprefixvar
$eunicefix setprefixvar

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/Setprefixvar.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: man1dir.U,v 3.2 1999/07/08 20:57:21 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996, 1999 Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.2  1999/07/08 20:57:21  doughera
?RCS: Used installprefix.
?RCS:
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
```

```
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and
 man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: cat nroff Loc Oldconfig \
 spackage test Getfile Setprefixvar Prefixit Prefixup sysman Myread \
 prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:man1dir="
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man1direxp="
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman1dir="
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location.
 For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
?LINT:change prefixvar
?LINT:set man1direxp
: determine where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
```

```
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 '') man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
'')
 lookpath="$prefixexp/share/man/man1"
 lookpath="$lookpath $prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people
 expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir="
fi
prefixvar=man1dir
. ./setprefixvar

case "$man1dir" in
'') man1dir=' '
 installman1dir='';;
esac

: What suffix to use on installed man pages
```

```
case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 '') case "$man1dir" in
  *1)  dflt=1 ;;
  *1p) dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1)
 dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/man1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installstyle.U,v 1.2 1999/07/13 14:56:06 doughera Exp $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: installstyle.U,v $
?RCS: Revision 1.2  1999/07/13 14:56:06  doughera
?RCS: Fix dependencies.  Add more comments.
?RCS:
```

```
?RCS: Revision 1.1  1999/07/12 17:30:41  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installstyle: prefix Myread
?MAKE: -pick add $@ %<
?X: Myread dependence is for dflt.
?S:installstyle:
?S: This variable describes the "style" of the perl installation.
?S: This is intended to be useful for tools that need to
?S: manipulate entire perl
 distributions.  Perl itself doesn't use
?S: this to find its libraries -- the library directories are
?S: stored directly in Config.pm.  Currently, there are only two
?S: styles:  "lib" and "lib/perl5".  The default library locations
?S: (e.g. privlib, sitelib) are either $prefix/lib or
?S: $prefix/lib/perl5.  The former is useful if $prefix is a
?S: directory dedicated to perl (e.g. /opt/perl), while the latter
?S: is useful if $prefix is shared by many packages, e.g. if
?S: $prefix=/usr/local.
?S:
?S: Unfortunately, while this "style" variable is used to set
?S: defaults for all three directory hierarchies (core, vendor, and
?S: site), there is no guarantee that the same style is actually
?S: appropriate for all those directories.  For example, $prefix
?S: might be /opt/perl, but $siteprefix might be /usr/local.
?S: (Perhaps, in retrospect, the "lib" style should never have been
?S: supported, but it did seem like a nice idea at the time.)
?S:
?S: The situation is even less clear for
 tools such as MakeMaker
?S: that can be used to install additional modules into
?S: non-standard places.  For example, if a user intends to install
?S: a module into a private directory (perhaps by setting PREFIX on
?S: the Makefile.PL command line), then there is no reason to
?S: assume that the Configure-time $installstyle setting will be
?S: relevant for that PREFIX.
?S:
?S: This may later be extended to include other information, so
?S: be careful with pattern-matching on the results.
?S:
?S: For compatibility with perl5.005 and earlier, the default
?S: setting is based on whether or not $prefix contains the string
?S: "perl".
?S:.
: determine installation style
: For now, try to deduce it from prefix unless it is already set.
: Reproduce behavior of 5.005 and earlier, maybe drop that in 5.7.
```

```
case "$installstyle" in
") case "$prefix" in
  *perl*) dflt='lib';;
  *) dflt='lib/perl5' ;;
 esac
 ;;
*) dflt="$installstyle" ;;
esac
: Probably not worth prompting for this since we prompt
 for all
: the directories individually, and the prompt would be too long and
: confusing anyway.
installstyle=$dflt
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/installstyle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Init.U,v 3.0.1.1 1994/10/31 09:45:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file
 initializes certain default variables used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
```

```
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X: everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?LINT:extern DJGPP
?LINT:extern _exe
?LINT:change _exe
?LINT:extern is_os2
: Detect odd OSs
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist="

: We must find out about
 Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
: Amiga OS
   _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
   _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
   _exe=".exe"
elif test -f /kern/cookiejar; then
: MiNT
   _exe=""
elif test -d c:/. -o -n "$is_os2" ; then
: OS/2 or cygwin
   _exe=".exe"
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Init.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Options.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7 1997/02/28 15:08:15 ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6 1995/09/25 09:14:46 ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5 1995/05/12 12:04:52 ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4 1995/01/30 14:27:52 ram
?RCS:
 patch49: this unit now exports file optdef.sh, not a variable
?RCS:
?RCS: Revision 3.0.1.3 1995/01/11 15:19:00 ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2 1994/10/29 15:58:06 ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1 1994/06/20 06:55:44 ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:14 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and

```
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options:
 startsh
?MAKE: -pick wipe $@ %<
?V:reuseval alldone error realsilent silent extractsh fastread \
 knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp ccflags
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X:
 to worry too much.
cat > cmdline.opt <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '"'"'
 cat <<EOC | sed -e "s/'/'"'"'"'"'"'"'"'"'/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
```

```
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c]
 = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str, 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
```

```
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prepended to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread="
reuseval=false
config_sh="
alldone="
error="
silent="
extractsh="
knowitall="
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
```

```
-e) shift; alldone=cont;;
-f)
 shift
 cd ..
 if test -r "$1"; then
  config_sh="$1"
 else
  echo "$me: cannot read config file $1."
>&2
  error=true
 fi
 cd UU
 shift;;
--help|\
-h) shift; error=true;;
-r) shift; reuseval=true;;
-s) shift; silent=true; realsilent=true;;
-E) shift; alldone=exit;;
-K) shift; knowitall=true;;
-O) shift;;
-S) shift; silent=true; extractsh=true;;
-D)
 shift
 case "$1" in
 *=)
  echo "$me: use '-U symbol=', not '-D symbol='." >&2
  echo "$me: ignoring -D $1" >&2
  ;;
 *=*) echo "$1" | \
   sed -e "s/'/'\"'\"'/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
 *) echo "$1='define'" >> optdef.sh;;
 esac
 shift
 ;;
-U)
 shift
 case "$1" in
 *=) echo "$1" >> optdef.sh;;
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
   shift
```

```
  xxx="
  yyy="$1"
  zzz="
  uuu=undef
  case "$yyy" in
      *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
          case "$zzz" in
          *:*) zzz=" ;;
          *)   xxx=append

          zzz=" "`echo "$yyy"|sed 's!^[^=]*=!!'`
              yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
          esac
          ;;
      esac
      case "$xxx" in
      ")  case "$yyy" in
          *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
              yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
              zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
              yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
          *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
              yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
          esac
          ;;
      esac
  case "$xxx" in
  append)
echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
  clear)
echo "$yyy=""   >> posthint.sh ;;
  define)
     case "$zzz" in
") zzz=define ;;
esac
echo "$yyy='$zzz'"  >> posthint.sh ;;
  eval)
echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
  prepend)
echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
  undef)

    case "$zzz" in
") zzz="$uuu" ;;
esac
echo "$yyy=$zzz"  >> posthint.sh ;;
      *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
  esac
```

```
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
            [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
      -D symbol               symbol gets the
 value 'define'
      -D symbol='some value'   symbol is set to 'some value'
    common used examples (see INSTALL for more info):
      -Duse64bitint           use 64bit integers
      -Duse64bitall           use 64bit integers and pointers
      -Dusethreads            use thread support
      -Dinc_version_list=none  do not include older perl trees in @INC
      -DEBUGGING=none         DEBUGGING options
      -Dcc=gcc                choose your compiler
      -Dprefix=/opt/perl5      choose your destination
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : ignored for backward compatibility
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
      -U symbol    symbol gets the value 'undef'
      -U symbol=   symbol gets completely empty
    e.g.:  -Uversiononly
 -A : manipulate symbol after the platform specific hints
 have been applied:
      -A append:symbol=value   append value to symbol
      -A symbol=value          like append:, but with a separating space
      -A define:symbol=value   define symbol to have value
      -A clear:symbol          define symbol to be ''
      -A define:symbol         define symbol to be 'define'
```

```
        -A eval:symbol=value     define symbol to be eval of value
        -A prepend:symbol=value  prepend value to symbol
        -A undef:symbol          define symbol to be 'undef'
        -A undef:symbol=         define symbol to be ''
      e.g.:  -A prepend:libswanted='cl pthread '
             -A ccflags=-DSOME_MACRO
 -V : print version number and exit (with a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and
 cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true) exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
```

```
touch optdef.sh
?X: -q is POSIX
?X: It does not work in SysV (solaris) or old BSD greps.
grep '\\' optdef.sh >/dev/null 2>&1
if test $? = 0; then
   echo "Configure does not support \\
 in -D arguments"
   exit 1
fi
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_whoami.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit makes sure we don't try to include whoami.h if uname() exists.
?X:
?MAKE:Chk_whoami: d_uname i_whoami
?MAKE: -pick add $@ %<
?LINT:change i_whoami
: weed out incompatibilities
case "$d_uname" in
 "$define") i_whoami="$undef" ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Chk_whoami.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailList.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailList.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:01:49  ram
?RCS: patch16: created
?RCS:
?RCS:
?X:
?X: This unit offers the user the option of subscribing to the mailing
?X: list. To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: The address of the mailing list server must be set via a "list_request=..."
?X:
 entry in the .package file. This is usually done by running packinit and
?X: answering the proper questions.
?X:
?MAKE:MailList: cat mailer package Myread cf_name cf_email
?MAKE: -pick wipe $@ %<
?T:list_request list_sub list_unsub list_name
?X:
?X: The cf_name dependency is used through list_sub when the mailing list
?X: manager happens to be listserv, whereas cf_email is used whith majordomo
?X: or when the mailing list request address is scanned by a human. Since
?X: they do not appear within the unit itself, we need a lint hint.
?X:
?LINT:use cf_name cf_email
: offer to join the mailing list
list_request='<$list_request>'
list_sub="<$list_sub>"
list_unsub="<$list_unsub>"
list_name="<$list_name>"
$cat <<EOM

There is a mailing list for discussion about $package and related issues.
This is the preferred place to ask questions about the program and discuss
modifications and additions with the author and other users.  If you are able
to send mail to the Internet, you
 are encouraged to subscribe.  You need only
ever subscribe once, and you can unsubscribe automatically at any time in the
```

future. If you have already subscribed and you wish to unsubscribe now, you
may do so by answering "unsubscribe". Answer "subscribe" to subscribe to the
list.

EOM
rp="Subscribe to or unsubscribe from the $list_name mailing list?"
dflt=neither
. ./myread
case "$ans" in
[sS]*) $cat <<EOM

You will be sent a message from the list server to let you know when your
subscription has been successful and telling you how to submit articles and
how to unsubscribe again when necessary. You may also unsubscribe by running
this script again and asking it to do so for you.

EOM
 echo "Sending mail to subscribe you to the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To: $list_request

$list_sub
EOM
 ;;
[uU]*) echo "Sending mail to unsubscribe you from the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To:
 $list_request

$list_unsub
EOM
 ;;
esac

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/MailList.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
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```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:05  ram
?RCS:
 patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym: Options contains libc libs runnm +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: wether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?V:csym
?T:tval tx tlook tf tdc tc
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tc=""; tdc="";;
-a) tf=libc.tmp; tc="[0]"; tdc="[]";;
*) tlook="^$1\$";
 tf=libc.list; tc=""; tdc="()";;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
```

```
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx" in
yes)
 case "$runnm" in
 true)
  if $contains $tlook $tf >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;;
 *)
?X:
?X: We use 'char' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'char' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lifes so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the
 compile test, in case the 'char'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
?X: Lastly, gcc 3.4 otimizes &missing == 0 away, so we use + 2 instead now.
?X: The GNU folks like to do weird things, don't they? -- RAM, 2004-06-05
?X:
  echo "extern char $1$tdc; int main() { return &$1$tc + 2; }" > t.c;
  if $cc $ccflags $ldflags -o t t.c $libs >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;
  $rm -f t t.c;;
 esac;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Csym.U
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Yes, you may rip this off to use in other distribution packages. This
script belongs to the public domain and cannot be copyrighted.
#

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Head.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Head.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: manfmt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: manfmt.U,v $
?RCS: Revision 3.0.1.5 1997/02/28 16:11:57 ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.4 1995/09/25 09:16:52 ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3 1995/01/30 14:39:20 ram
?RCS: patch49: new installmanfmt and AFS-lookup for formatted man pages
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS:
 Revision 3.0.1.2 1994/08/29 16:30:31 ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:09:22 ram
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
?RCS: Revision 3.0 1993/08/18 12:09:13 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:manfmt manfmtexp installmanfmt: Getfile Loc Oldconfig cat manext \
 spackage Prefixit prefixexp Prefixup afs test
?MAKE: -pick add $@ %<
?Y:TOP
?S:manfmt:
?S: This variable contains the name of the directory in which formatted
?S: manual pages are to be put. It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command. Note

```
?S: that you may have to do ~name substitution. Use manfmtexp otherwise.
?S:.
?S:manfmtexp:
?S: This is the same as the manfmt variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
?S:installmanfmt:
?S: This variable is really
 the same as manfmtexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change manext
?T:lookpath
: determine where manual pages go
set manfmt manfmt
eval $prefixit
$cat <<EOM

$spackage has pre-formatted manual pages.  If you don't want these installed,
answer 'none' to the next question.

EOM
case "$manfmt" in
")
 lookpath="$prefixexp/catman/man1 $prefixexp/man/cat1"
 lookpath="$lookpath $prefixexp/catman/u_man/man1"
 lookpath="$lookpath $prefixexp/catman/l_man/man1"
 lookpath="$lookpath $prefixexp/catman/cat1 /usr/catman/local/man1"
 lookpath="$lookpath /usr/catman/manl /usr/man/cat1"
 lookpath="$lookpath /usr/catman/mann /usr/catman/l_man/man1"
 lookpath="$lookpath /usr/catman/u_man/man1 /usr/catman/man1"
 dflt=`./loc . none $lookpath`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$manfmt"
 ;;
esac
fn=dn~
rp='Where
 do pre-formatted manual pages go?'
. ./getfile
if test "X$manfmtexp" != "X$ansexp"; then
 installmanfmt="
fi
```

```
manfmt="$ans"
manfmtexp="$ansexp"
if $afs && $test "$manfmt"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmanfmt" in
 '') dflt=`echo $manfmtexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmanfmt";;
 esac
 fn=de~
 rp='Where will pre-formatted man pages be installed?'
 . ./getfile
 installmanfmt="$ans"
else
 installmanfmt="$manfmtexp"
fi

case "$manfmt" in
'') manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/manfmt.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: vendorhtml1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml1dir vendorhtml1direxp installvendorhtml1dir: html1dir Getfile \
 Setprefixvar Oldconfig Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml1dir:
?S: This variable contains the name of the directory for html
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml1direxp:
?S: This variable is the ~name expanded version of vendorhtml1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml1dir="
?S:installvendorhtml1dir:
?S: This variable is really the same as vendorhtml1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml1dir
: Set the vendorhtml1dir variables
case "$vendorprefix" in
") vendorhtml1dir="
 vendorhtml1direxp="
 ;;
*) : determine where vendor-supplied html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default suggestions would be welcome.
 case "$vendorhtml1dir"
 in
 ") dflt=`echo "$html1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml1dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
```

```
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml1dir="$ans"
 vendorhtml1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml1dir" = "X" && vendorhtml1dir=' '
prefixvar=vendorhtml1dir
. ./installprefix
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorhtml1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnlist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnlist.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:02  ram
?RCS: patch61: added usrinc and mips on the dependency line
?RCS: patch61: make sure we call ./mips
?RCS: patch61: added a ?LINT: hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnlist: Loc libpth Guess usrinc _a
?MAKE: -pick add $@ %<
?S:libnlist (libmld):
?S: This variable contains the name of the library required to
 get the
?S: definition of the nlist() function.  On a MIPS RISC/OS box, it is -lmld.
?S: Under Sys Vr4, it is -lelf.  Otherwise, its value is empty.
?S:.
?T:xxx
?LINT:use usrinc
: see if we need a special library for 'nlist()'
echo " "
: How about doing this if nlist is not in libc...
if ./mips ; then
```

```
 libnlist='-lmld'
else
 xxx=`./loc libelf$_a x $libpth`
 case "$xxx" in
 x)  ;;
 *)
  libnlist="$xxx"
  ;;
 esac
fi
case "$libnlist" in
'') echo "No special library for nlist() seems necessary." >&4
 ;;
*)  echo "nlist() can be found in $libnlist." >&4
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libnlist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_sysfile.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_sysfile: Nothing
?MAKE: -pick add $@ %<
?S:h_sysfile:
?S: This is variable gets set in various places to tell i_sys_file that
?S: <sys/file.h> should be included.
?S:.
: Initialize h_sysfile
h_sysfile=false
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/h_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasfield string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat st_blocks i_sysstat sys/stat.h
?X:  eval $hasfield
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat st_blocks $hdrs
?X: eval $hasfield
?X:
?MAKE:Hasfield: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct field
?V:hasfield
: Define hasfield macro for Configure internal use
hasfield='varname=$1;
 struct=$2; field=$3; shift; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; char* bar; bar = (char*)foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Hasfield.U
```

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

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Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sigsetjmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: installprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: installprefix.U,v $
?RCS: Revision 1.1 1999/07/08 18:32:57 doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installprefix installprefixexp: Getfile Loc \
 Oldconfig afs cat package prefix
?MAKE: -pick add $@ %<
?S:installprefix:
?S: This variable holds the name of the directory below which
?S: "make install" will install the package. For most users, this
?S: is the same
 as prefix. However, it is useful for
?S: installing the software into a different (usually temporary)
?S: location after which it can be bundled up and moved somehow
?S: to the final location specified by prefix.
?S:.
?S:installprefixexp:
?S: This variable holds the full absolute path of installprefix
?S: with all ~-expansion done.
?S:.
: determine installation prefix for where package is to be installed.
if $afs; then
$cat <<EOM

Since you are running AFS, I need to distinguish the directory in which

files will reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprefix" in
 '') dflt=`echo $prefix | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprefix";;
 esac
else
$cat <<EOM

In some special cases, particularly when building $package for distribution,
it is convenient to distinguish the directory in which files should be
installed from the directory ($prefix) in which they will
eventually
 reside. For most users, these two directories are the same.

EOM
 case "$installprefix" in
 '') dflt=$prefix ;;
 *) dflt=$installprefix;;
 esac
fi
fn=d~
rp='What installation prefix should I use for installing files?'
. ./getfile
installprefix="$ans"
installprefixexp="$ansexp"

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/installprefix.U
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Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perlxvf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_socks.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_j0.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perlxv.U
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/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_nexttoward.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fsync.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_nearbyint.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_unordered.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strtouq.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/defaultincdot.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_endhostent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_endservent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_ttyname_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_newlocale.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getgrgid_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_tgamma.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_rint.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/usethreads.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_ctermid_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_strtod_l.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_remquo.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getnbynm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ualarm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_readdir_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getservbyname_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_setnetent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fmax.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_cmsghdr_s.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fpgetround.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_remainder.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lgamma_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_copysignl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_setenv.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_longdbl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_log1p.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sockatmark.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/a_dvisory/quadtype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usebacktrace.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_nl_langinfo_l.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_stdbool.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isnormal.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fpclassify.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_expm1.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_nan.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getgrnam_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_cplusplus.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_thread_local.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_gethbyad.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_endgrent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_setgrent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_statvfs.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getservbyport_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lrintl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_libm_lib_version.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_shadow.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getmnt.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_llrint.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_crypt.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getservent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_setprotoent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_srandom_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_gethostbyname_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_longlong.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isfinitel.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getnbyad.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isless.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_msghdr_s.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usequadmath.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lgamma.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_ctime_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_endnetent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_setpwent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usemultiplicity.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_off64_t.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fpclass.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_pthrattrj.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_asinh.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fchdir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sqrtl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_mntent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strtoq.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_llrintl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_timegm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getgrent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_llround.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getprotoent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_aintl.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_localtime_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_timefuncs64.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strlcpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_setlocale_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysmount.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strnlen.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_ieeefp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getitimer.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_mkstemps.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_towlower.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fp_classl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usefaststdio.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isfinite.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: MailAuthor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailAuthor.U,v $
?RCS: Revision 3.0.1.5 1997/02/28 15:04:41 ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4 1994/08/29 16:05:09 ram
?RCS: patch32: avoid message sending if they said no previously
?RCS:
?RCS: Revision 3.0.1.3 1993/10/16 13:47:30 ram
?RCS: patch12: now makes sure user-specified address is in Internet format
?RCS:
?RCS: Revision
 3.0.1.2 1993/09/13 15:48:49 ram
?RCS: patch10: reverted to original intent by the Author himself
?RCS:
?RCS: Revision 3.0.1.1 1993/08/27 14:38:38 ram
?RCS: patch7: now prompts user for its e-mail address
?RCS: patch7: no longer silent when mail has been sent
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:06 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?RCS:
?X:
?X: This unit asks the user to please send a message to the author.
?X: To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: This allows a smart mailagent program to automatically let users know
?X: when their package is out of date, and to allow users to be notified of
?X: any future patches.
?X:
?MAKE:MailAuthor mailpatches notifypatches usermail: test cat mailer \
 package Myread patchlevel baserev rm rsrc Oldconfig Configdir
?MAKE: -pick wipe $@ %<
?S:mailpatches:
?S: Indicates whether the user would like future patches to be mailed
?S: directly

```
 to them.
?S:.
?S:notifypatches:
?S: Indicates whether the user would like notification of future patches
?S: mailed to them.
?S:.
?S:usermail:
?S: This variable is used internally by Configure to keep track of the
?S: user e-mail address, where notifications or patches should be sent.
?S: A '-' value means the return address will be extracted by parsing
?S: the mail headers.
?S:.
?T:opt mailpatches notifypatches atsh status
: notify author that his package is used
if $test -f ../.config/mailauthor &&
 cmp $rsrc/patchlevel.h ../.config/mailauthor >/dev/null 2>&1
then
 status="say that you're using $package";
 case "$mailpatches" in
 true) status='have patches mailed to you as they are issued';;
 esac
 case "$notifypatches" in
 true) status='be notified when new patches are issued';;
 esac
 $cat <<EOM

You have already sent the author of $package (<MAINTLOC>) mail to
$status. If you wish, you may modify
your previous request by sending a new mail with different options.

EOM
 rp='Should
 I send a status update to <MAINTLOC>?'
 dflt=n
else
 $cat <<EOM

If you are able to send mail to the Internet, the author of $package would
really appreciate you letting me send off a quick note, just to say that you've
tried it. The author is more likely to spend time maintaining $package if it's
known that many people are using it, and you can even ask to get sent new
patches automagically this way if you wish. To protect your privacy, all I'll
say in the mail is the version of $package that you're using.

EOM
 rp='Should I send mail to <MAINTLOC>?'
 dflt=y
?X: Ensure default is 'n' if question has been asked already, in case they
```

```
?X: run Configure -d next time and answered 'n' the first time. Therefore,
?X: an empty nomail will be created later on even if no mail is sent.
 $test -f ../.config/nomail && dflt=n
fi
. ./myread
case "$ans" in
[yY]*)
 echo " "
 echo "Great! Your cooperation is really appreciated."
 $cat <<EOM

Some braindead sites do not set a proper return
 address in the From: header of
their outgoing mail, making it impossible to reply to mail they generate.
If your site is broken in this way, write to your system administrator and get
it fixed!!! In the mean time, you can manually specify the Internet e-mail
address by which the author can get back to you, should there be a need to do
so. If manually specified, it should be something like "user@domain.top".
If your mail system generates addresses correctly, specify "none".

EOM
 case "$usermail" in
 '-'|'') dflt=none;;
 *) dflt="$usermail";;
 esac
 rp='Manually specify a return address to use:'
 . ./myread
 case "$ans" in
 none|*@*.*)
  case "$ans" in
  none) usermail='-';;
  *) usermail="$ans";;
  esac
  ;;
 *)
  echo "(Address does not look like an Internet one -- ignoring it.)"
?X:
?X: If we can't trust their mailer or their return address, it's highly
?X: suggested that they only register and don't ask to get anything from
?X: the author, since it's likely to bounce in null-land --
 RAM.
?X:
  usermail='-'
  mailpatches=false
  notifypatches=false
  ;;
 esac
 echo " "
```

```
opt=''
rp='Would you like to have new patches automatically mailed to you?'
case "$mailpatches" in
true) dflt=y;;
*) dflt=n;;
esac
. ./myread
case "$ans" in
[yY]*) opt=' mailpatches'; mailpatches=true;;
*)
 mailpatches=false
 echo " "
 rp='Ok, would you like to simply be notified of new patches?'
 case "$notifypatches" in
 false) dflt=n;;
 *) dflt=y;;
 esac
 . ./myread
 echo " "
 case "$ans" in
 [yY]*) opt=' notifypatches'; notifypatches=true;;
 *)
  echo "Fine, I'll simply say that you've tried it then."
  notifypatches=false
  ;;
 esac
 ;;
esac
 echo "Sending mail to <MAINTLOC>..." >&4
?X: Bizarre hack here. We can't just put @SH in the hereis lines below, because
?X: metaconfig will interpret it as a command, and there's no quoting mechanism.
?X: Do it via a variable instead.
 atsh='@SH'
 $mailer <MAINTLOC> <<EOM >/dev/null 2>&1
Subject: Command
Precedence: junk
To: <MAINTLOC>

$atsh
 package $usermail $package $baserev $patchlevel$opt
EOM
 $rm -f ../.config/mailauthor ../.config/nomail
 cp $rsrc/patchlevel.h ../.config/mailauthor
 ;;
*)
 case "$dflt" in
 "y")
  echo "Oh well, maybe next time."
```

```
  cp /dev/null ../.config/nomail
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/MailAuthor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_email.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:05:06  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:cf_email: cat cf_by test myhostname mydomain Oldconfig Myread
?MAKE: -pick add $@ %<
?S:cf_email:
?S: Electronic mail address of the person who ran Configure. This can be
?S: used by units that require the user's e-mail, like MailList.U.
?S:.
?T:cont maildomain
?LINT:extern MAILDOMAIN
: determine the e-mail address of the user who is running us
$cat <<EOM

I need to get your e-mail address
 in Internet format if possible, i.e.
something like user@host.domain. Please answer accurately since I have
no easy means to double check it. The default value provided below
is most probably close to reality but may not be valid from outside
your organization...

EOM
cont=x
while test "$cont"; do
 case "$MAILDOMAIN" in
 '')
```

```
 if $test -s /etc/mailname; then
  maildomain=`$cat /etc/mailname`
 else
  maildomain="$myhostname$mydomain"
 fi
 ;;
*)  maildomain="$MAILDOMAIN";;
esac
case "$cf_email" in
") dflt="$cf_by@$maildomain";;
*)  dflt="$cf_email";;
esac
rp='What is your e-mail address?'
. ./myread
cf_email="$ans"
case "$cf_email" in
*@*.*) cont=" ;;
*)
 rp='Address does not look like an Internet one.  Use it anyway?'
 case "$fastread" in
 yes) dflt=y ;;
 *) dflt=n ;;
 esac
 . ./myread
 case "$ans" in
 y*) cont=" ;;
 *) echo " " ;;
 esac
 ;;
esac
done
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cf_email.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Unix.U,v $
```

```
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _a _o firstmakefile archobjs: Oldconfig
?MAKE: -pick add $@ %<
?S:_a (lib_ext):
?S: This variable defines the extension
 used for ordinary libraries.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o (obj_ext):
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files
 or command line option can be used to override them.
case "$_a" in
") _a='.a';;
esac
case "$_o" in
") _o='.o';;
esac

@if firstmakefile
```

```
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Unix.U,v 3.0.1.1 1997/02/28 15:20:06 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _exe _a _o exe_ext lib_ext obj_ext path_sep \
 firstmakefile archobjs rm_try: Oldconfig rm
?MAKE: -pick add $@ %<
?S:_exe:
?S: This
 variable defines the extension used for executable files.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?S:_a:
?S: This variable defines the extension used for ordinary library files.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o:
?S: This variable defines the extension used for object files.
```

?S: For unix, it is '.o'. The '.' is included. Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make. On unix,
?S: it is makefile (then Makefile). On case-insensitive systems,
?S: it might be something else. This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture. On unix, it is usually
?S: empty.
 It is typically used to include emulations of unix calls
?S: or other facilities. For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?X: Metaconfig's Obsolete symbol stuff is too over-eager. In the
?X: perl sources, it picks up things like "P" and "FLOCK" that are
?X: not used in the way Metaconfig thinks they are. Thus I can't
?X: just declare these obsolete and then run metaconfig -o.
?X: Instead, I'll just handle them here.
?X: Sadly, history has conspired to give us a web of definitions;
?X: this could have been much simpler.
?S:lib_ext:
?S: This is an old synonym for _a.
?S:.
?S:exe_ext:
?S: This is an old synonym for _exe.
?S:.
?S:obj_ext:
?S: This is an old synonym for _o.
?S:.
?S:path_sep:
?S: This is an old synonym for p_ in Head.U, the character
?S: used to separate elements in the command shell search PATH.
?S:.
?S:rm_try:
?S: This is a cleanup variable for try test programs.
?S: Internal Configure use only.
?S:.
?LINT: change p_
?INIT::
 Trailing extension. Override this in a hint file, if needed.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files or command line option can be used to override them.

```
: The convoluted testing is in case hints files set either the old
: or the new name.
case "$_exe" in
'') case "$exe_ext" in
 '') ;;
 *) _exe="$exe_ext" ;;
 esac
 ;;
esac
case "$_a" in
'') case "$lib_ext" in
   '') _a='.a';;
 *) _a="$lib_ext" ;;
 esac
 ;;
esac
case "$_o" in
'') case "$obj_ext" in
 '') _o='.o';;
 *) _o="$obj_ext";;
 esac
 ;;
esac
case "$p_" in
'') case "$path_sep" in
 '') p_=':';;
 *) p_="$path_sep";;
 esac
 ;;
esac
exe_ext=$_exe
lib_ext=$_a
obj_ext=$_o
path_sep=$p_

rm_try="$rm -f try try$_exe a.out .out try.[cho] try.$_o core core.try* try.core*"

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
'') firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Unix.U

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

```
/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:45  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/scandir.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1
  1994/08/29  16:31:17  ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs _a _o
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running ar... Others like Ultrix
?X: need an explicit 'ar ts'
 to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<'EOP'
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
 echo "ar appears to generate random libraries itself."
 orderlib=false
 ranlib=":"
elif $ar ts bar$_a >/dev/null 2>&1 &&
 $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
  echo "a table of contents
 needs to be added with 'ar ts'."
  orderlib=false
  ranlib="$ar ts"
```

```
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
 :) ranlib='';;
 '')
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
  $test -f $ranlib || ranlib=''
  ;;
 esac
 if $test -n "$ranlib"; then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
  ranlib=':'
 fi
fi
$rm -f foo* bar*

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/orderlib.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: lintlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lintlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lintlib lintlibexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:lintlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public lint-library files for the package in question.  It is
```

```
?S: most often a local directory such as /usr/local/lib/lint. Programs using
?S: this variable must be prepared to
 deal with ~name expansion.
?S:.
?S:lintlibexp:
?S: This variable is the same as the lintlib variable, but is filename
?S: expanded at configuration time, for convenient use in your makefiles.
?S:.
: determine where public lint libraries go
case "$lintlib" in
'') dflt=`./loc . "." /usr/local/lib/lint /usr/lib/lint /usr/lib`;;
*) dflt="$lintlib" ;;
esac
echo " "
fn=d~
rp='Where do you want to put the public lint libraries?'
. ./getfile
lintlib="$ans"
lintlibexp="$ansexp"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lintlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml3dir vendorhtml3direxp installvendorhtml3dir: html3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml3dir:
?S: This variable contains the name of the directory for html
?S: library pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing
 in this directory.
?S: Vendors who distribute perl may wish to place their own
```

```
?S: html pages for modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml3direxp:
?S: This variable is the ~name expanded version of vendorhtml3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml3dir="
?S:installvendorhtml3dir:
?S: This variable is really the same as vendorhtml3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml3dir
: Set the vendorhtml3dir variables
case "$vendorprefix" in
") vendorhtml3dir="
 vendorhtml3direxp="
 ;;
*) : determine where vendor-supplied module html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default
 suggestions would be welcome.
 case "$vendorhtml3dir" in
 ") dflt=`echo "$html3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml3dir="$ans"
 vendorhtml3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml3dir" = "X" && vendorhtml3dir=' '
prefixvar=vendorhtml3dir
. ./installprefix
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorhtml3dir.U

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

```
?RCS: $Id: libyacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libyacc.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:09:19  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/05/13  15:27:12  ram
?RCS: patch27: added byacc case (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:09:01  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:49  ram
?RCS: patch16: un-obsoleted this unit for smooth yacc compilations
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libyacc: Loc yacc libpth _a
?MAKE: -pick add $@ %<
?S:libyacc:
?S: This variable contains the argument to pass to the loader in order
?S: to get the yacc library routines.  If there is no yacc or yacc
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -ly
echo " "
case "$yacc" in
*byacc*)
 echo "You are using byacc, so I won't look for a yacc library." >&4
 libyacc="
 ;;
*yacc)
 xxx=`./loc liby$_a x $libpth`
 case "$xxx" in
 x)
```

```
 echo "No yacc library found." >&4
 libyacc="
 ;;
*)
 echo "yacc library found in $xxx." >&4
 libyacc="$xxx"
 ;;
 esac
 ;;
*bison*)
 echo "You are using bison, so I won't look for a yacc library." >&4
 libyacc="
 ;;
*)
echo "You don't seem to have yacc, so I won't look for the yacc library." >&4
 libyacc="
 ;;
esac

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libyacc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: longsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: longsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:09:35  ram
?RCS: patch61: code moved to intsize.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:24:31  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: 'longsize' is now defined within intsize.U
?X:
?LINT: empty
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/longsize.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_group.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_group.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:34:52 ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1 1994/08/29 16:07:48 ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_group.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:09 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private

?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Nothing.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Warn_v7ND.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7ND.U,v $
?RCS: Revision 3.0.1.1 1994/10/29 16:01:46 ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0 1993/08/18 12:05:18 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit warns V7 sites that they may not have a non-blocking read.
?X: This unit needs to be mentioned in End.U to get included.
?X:
?MAKE:Warn_v7ND: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7; then
 cat
 <<EOM

NOTE: many V7 systems do not have a way to do a non-blocking read. If you
don't have any of FIONREAD, O_NDELAY, or rdchk(), the $package package
may not work as well as it might. It might not work at all.
EOM
fi

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Warn_v7ND.U

1.51 go-patricia 2.3.3

1.51.1 Available under license :

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1.52 libvisual 0.4.2-2build1

1.52.1 Available under license :

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1.53 pycryptodome 3.23.0

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1.55 fgprof 0.9.5

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SCOWLv2 uses the same sources as the original SCOWL (SCOWLv1) with some
additional information from WordNet and the Corpus of Contemporary American
English (COCA).

Both WordNet and COCA where used to determine when a possessive form of a noun
is applicable.

Data from COCA was also used to help determine the part-of-speeches
of certain
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The copyright for WordNet and all the sources for SCOWLv1 are below.

[FIXME: Condense the remeinder of the file and rewrite or remove all references
to components of SCOWLv1].

Alan Beale <biljir@pobox.com> also deserves special credit as he has,
in addition to providing the 12Dicts package and being a major
contributor to the ENABLE word list, given me an incredible amount of
feedback and created a number of special lists (those found in the
Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to
the Moby (TM) Words II [MWords] package), a subset of the 1000 most
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grady@netcom.com
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Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filespace called PUBLIC on the University mainframe, because it was considered public domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

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That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

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1.58 expat 2.6.1-2ubuntu0.3

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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/ErrorInfoOrBuilder.java
*
 /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/QuotaFailureOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/DateOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/OpenLink.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/shopping/type/ChannelOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/GridOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/QuotaLimitOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/PhoneNumber.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/LaunchStageProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/RubySettingsOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/ExprOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/LocalizedMessageOrBuilder.java
*
 /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/MethodSettingsOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/VisibilityProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/cloud/audit/OrgPolicyViolationInfo.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/Fraction.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/HttpBodyOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/FieldBehavior.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/MaterialIconOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/TimeOfDay.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/logging/type/HttpRequestOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/cloud/audit/RequestMetadata.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/Metric.java
*
 /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/Http.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/geo/type/Viewport.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/DividerOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/ErrorInfo.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/BorderStyleOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/longrunning/GetOperationRequest.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/LogDescriptor.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/IconOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/ErrorDetailsProto.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/CodeProto.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/VisibilityOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ConfigChange.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/MaterialIcon.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/AuthenticationRule.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/ButtonOrBuilder.java
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 /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ClientProto.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ControlProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/StatusProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/RoutingProto.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/ColorProto.java
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jar/com/google/longrunning/ListOperationsRequestOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/DecimalOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/PublishingOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/longrunning/DeleteOperationRequest.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/IntervalProto.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/DocumentationRuleOrBuilder.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/BackendOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/PythonSettingsOrBuilder.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/Icon.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/BackendRuleOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/ButtonList.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/SystemParameterOrBuilder.java
*
/proto-google-common-protos-2-43-0-sources-1-jar/com/google/cloud/audit/ResourceLocationOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/Image.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/QuaternionProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ContextProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/FieldInfoOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/LabelDescriptorOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/FieldInfoProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/Columns.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/AuthProvider.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/CalendarPeriod.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/FieldPolicyOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/AnnotationsProto.java
*
/proto-google-common-protos-2-43-0-sources-1-jar/com/google/longrunning/OperationInfoOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/ResourceInfo.java

* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/DocumentationOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/MethodPolicyOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ContextOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/cloud/audit/AuthorizationInfoOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/MethodSettings.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/BorderStyle.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/cloud/audit/AuditLog.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/MoneyOrBuilder.java
*
/proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ResourceProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/PreconditionFailure.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/PhpSettingsOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/UsageProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/PostalAddress.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/HelpOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/shopping/type/Weight.java
* /proto-google-common-protos-2-43-0-sources-1-
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* /proto-google-common-protos-2-43-0-sources-1-
jar/com/google/cloud/location/ListLocationsResponseOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/logging/type/HttpRequest.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/HttpProto.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/Decimal.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ConsumerProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/MonitoredResource.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/NodeSettingsOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/PhoneNumberOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/cloud/location/ListLocationsRequest.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/QuotaProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/UsageOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/Service.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/FractionProto.java
*
/proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/CalendarPeriodProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/HttpRuleOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/CustomHttpPatternOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/ImageComponent.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/longrunning/OperationsProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/shopping/type/DestinationOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/BackendProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ErrorReason.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/MonitoredResourceMetadata.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/ImageCropStyleOrBuilder.java
*

/proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/JwtLocation.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/LocalizedTextProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/logging/type/HttpRequestProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/Visibility.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/HttpBody.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/TimeOfDayProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/CustomHttpPattern.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/UsageRuleOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/UsageRule.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/WidgetOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/LoggingProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/ColorOrBuilder.java
*
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/Advice.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/cloud/audit/AuthorizationInfo.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/Money.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ClientLibraryDestination.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/cloud/ExtendedOperationsProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/DebugInfo.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/FractionOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/JavaSettingsOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/SelectionInputOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/AdviceOrBuilder.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/EndpointOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/MoneyProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/HttpBodyProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ChangeType.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/geo/type/ViewportOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ProjectPropertiesOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/cloud/location/LocationsProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/MetricOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/SelectionInput.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/CommonLanguageSettings.java
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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/cloud/audit/ResourceLocation.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/TextInput.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/longrunning/OperationOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/PropertyOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/DateTimePicker.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ServiceProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/SourceInfoOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/StatusOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/LabelDescriptor.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/SystemParameter.java

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* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/PhpSettings.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/Action.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/Grid.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/shopping/type/Price.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/longrunning/OperationInfo.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ConfigChangeOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/QuotaFailure.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/Billing.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/Expr.java
*
 /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/DateTimeProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/MonitoredResourceMetadataOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/Widget.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/DateProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/LocalizedText.java
* /proto-google-common-protos-2-43-0-sources-1-
jar/com/google/cloud/audit/ServiceAccountDelegationInfoOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/Suggestions.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/RequestInfo.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/CommonLanguageSettingsOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/SystemParameterRuleOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/EndpointProto.java
*
 /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/TimeOfDayOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/Card.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/LatLngProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/OnClick.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/type/DayOfWeekProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/shopping/type/Channel.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/RetryInfo.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/FieldInfo.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/geo/type/ViewportProto.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/MetricDescriptorOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/ImageOrBuilder.java
*
 /proto-google-common-protos-2-43-0-sources-1-jar/com/google/longrunning/WaitOperationRequest.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/Usage.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/apps/card/v1/ColumnsOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/logging/type/LogSeverity.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/GoSettings.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/rpc/DebugInfoOrBuilder.java
* /proto-google-common-protos-2-43-0-sources-1-jar/com/google/api/ContextRule.java
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*/
/**
  *
  *
  * <pre>
  * Early Access features are limited to a closed group of testers. To use
  * these features, you must sign up in advance and sign a Trusted Tester
  * agreement (which includes confidentiality provisions). These features may
  * be unstable, changed in backward-incompatible ways, and are not
  * guaranteed
 to be released.
  * </pre>
  *
  * <code>EARLY_ACCESS = 1;</code>
  */
```

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* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/policy.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/rpc/context/attribute_context.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/http.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/type/dayofweek.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/type/color.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/logging.proto
*
 /proto-google-common-protos-2-43-0-sources-1-jar/google/type/decimal.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/rpc/status.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/log.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/httpbody.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/cloud/audit/audit_log.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/type/expr.proto
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* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/metric.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/cloud/extended_operations.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/quota.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/annotations.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/shopping/type/types.proto
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* /proto-google-common-protos-2-43-0-sources-1-jar/google/type/money.proto
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* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/field_info.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/service.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/apps/card/v1/card.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/resource.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/longrunning/operations.proto
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* /proto-google-common-protos-2-43-0-sources-1-jar/google/logging/type/log_severity.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/client.proto
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* /proto-google-common-protos-2-43-0-sources-1-jar/google/type/datetime.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/backend.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/rpc/context/audit_context.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/rpc/error_details.proto

* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/system_parameter.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/type/phone_number.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/context.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/monitored_resource.proto
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* /proto-google-common-protos-2-43-0-sources-1-jar/google/type/month.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/control.proto
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* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/monitoring.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/type/latlng.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/billing.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/source_info.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/endpoint.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/usage.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/rpc/code.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/label.proto
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 /proto-google-common-protos-2-43-0-sources-1-jar/google/api/auth.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/visibility.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/api/documentation.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/type/timeofday.proto
* /proto-google-common-protos-2-43-0-sources-1-jar/google/type/date.proto

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

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1.70 sudo 1.9.15p5-3ubuntu5.24.04.1

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Ackeret, Matt
Adler, Mark
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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
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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.
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Jindrk, Jaroslav
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Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan

Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya,
Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Orbn, Lszl
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander

Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
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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
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Buo-ren, Lin

Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
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Shahedany, Eshagh
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Triwidada, Andika
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
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1.74 libkeyutils 1.6.3-3build1

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
Unix systems for simple password protection. Copyright 1996 Aki Yoshida,
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1.76 goautoneg 0.0.0-20191010083416-a7dc8b61c822

1.76.1 Available under license :

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1.77 bean-validation-api 2.0.1.Final

1.77.1 Available under license :

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1.78 stax-ex 1.8

1.78.1 Available under license :

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: build
Build-Jdk: 9.0.4
Implementation-Title: Extended StAX API
Implementation-Version: 1.8
Implementation-Vendor-Id: org.jvnet.staxex
Implementation-URL: http://stax-ex.java.net/
Implementation-Build-Id: ${scmBranch}-${buildNumber}, ${timestamp}
Bnd-LastModified: 1524563042303
Bundle-Description: Extensions to JSR-173 StAX API.
Bundle-License: https://glassfish.dev.java.net/public/CDDL+GPL_1_1.htm
l
Bundle-ManifestVersion: 2

Bundle-Name: Extended StAX API
Bundle-SymbolicName: org.jvnet.staxex.stax-ex
Bundle-Version: 1.8.0
Export-Package: org.jvnet.staxex;version="1.8.0";uses:="javax.activati
on,javax.xml.namespace,javax.xml.stream",org.jvnet.staxex.util;versio
n="1.8.0";uses:="javax.xml.bind.attachment,javax.xml.namespace,javax.
xml.stream,org.w3c.dom"
Import-Package: javax.activation,javax.xml.bind.attachment,javax.xml.n
amespace,javax.xml.stream,org.jvnet.staxex;version="[1.8,2)",org.w3c.
 dom
Originally-Created-By: Apache Maven Bundle Plugin
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=9.0))"
Tool: Bnd-3.5.0.201709291849

Found in path(s):
* /stax-ex-1-8-9-jar/META-INF/MANIFEST.MF
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-->

Found in path(s):
* /stax-ex-1-8-9-jar/META-INF/maven/org.jvnet.staxex/stax-ex/pom.xml

1.79 npth 1.6-3.1build1

1.79.1 Available under license :

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1.80 libxcb 1.15-1ubuntu2

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1.81 libext2fs2t64 1.47.0-2.4~exp1ubuntu4.1

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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)
*/
 /*
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+ trivial database library - standalone version

- trivial database library - private includes
-
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Upstream-Name: e2fsprogs
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Source: http://sourceforge.net/projects/e2fsprogs
Comment:
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Appendix: How to Apply These Terms to Your New Programs

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

<one line to give the program's name and a brief idea of what it does.>
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Gnomovision comes with ABSOLUTELY NO WARRANTY;
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The hypothetical commands `show w' and `show c' should show the appropriate
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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repository from the development branch, please contact me
(tytso@mit.edu)
before you ship. The release schedules for this
package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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on
the Program is not required to print an announcement.)

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with the information you received as to the offer
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<one line to give the program'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.

If the program is interactive, make it output a short notice like this
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Gnomovision
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This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
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 The reason we have a separate public license for some libraries is that
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 Because of this blurred distinction, using the ordinary General
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concluded that weaker conditions might promote sharing better.

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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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compelled
to copy the source along with the object code.

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

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

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That's all there is to it!
#
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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1.82 option 1.0.1

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1.83 login 1:4.13+dfsg1-4ubuntu3.2

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1.87 slf4j 2.0.13

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Manifest-Version: 1.0
Bnd-LastModified: 1649403223965
Build-Jdk: 1.8.0_292
Built-By: runner
Bundle-Description: This module provides an interface for efficiently wr
iting localized messages out to a SLF4J Logger
Bundle-DocURL: https://github.com/OpenIdentityPlatform
Bundle-License: http://www.opensource.org/licenses/CDDL-1.0
Bundle-ManifestVersion: 2
Bundle-Name: org.openidentityplatform.commons.i18n-framework.slf4j
Bundle-SymbolicName: org.openidentityplatform.commons.i18n-framework.slf
4j

Bundle-Vendor: Open Identity Platform Community
Bundle-Version: 2.0.13
Created-By: Apache Maven Bundle Plugin
Export-Package: org.forgerock.i18n.slf4j;uses:="org.slf4j,org.forgerock.
i18n";version="2.0.13"
Import-Package: org.forgerock.i18n;version="[2.0,3)",org.slf4j;version="
[1.7,2)"
Tool: Bnd-1.50.0

Found in path(s):
* /slf4j-2-0-13-jar/META-INF/MANIFEST.MF

1.88 libfido2 1.14.0-1build3

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1.89 libxmu 2:1.1.3-3build2

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* /junixsocket-native-common-2-10-0-sources-1-jar/org/newsclub/lib/junixsocket/common/NarMetadata.java

1.91 golang-snappy 0.0.4

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1.92 pulseaudio 1:16.1+dfsg1-2ubuntu10.1

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`make' implicit rules from creating a file called install from it
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This script is compatible with the BSD install script, but was written
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1.94 packaging 21.3

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1.95 icu 74.2-1ubuntu3.1

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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
```

1.96 trilead-ssh 1.0.0

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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1.100 libsaslmodulesdb 2.1.28+dfsg1-5ubuntu3.1

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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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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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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
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```
/*
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*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

   /* disk geometry: */
 uint32_t d_secsize;  /*
 # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /* # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
 uint32_t d_secperunit;  /* # of data sectors per unit */

 /*
  * Spares (bad sector replacements) below
  * are not counted in d_nsectors or d_secpercyl.
  * Spare sectors are assumed to be physical sectors
```

```
 * which occupy space at the end of each track and/or cylinder.
 */
uint16_t d_sparespertrack; /* # of spare sectors per track */
uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders;  /* # of alt. cylinders per unit */

  /* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /*
track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /* drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */

  /* filesystem and partition information: */
uint16_t d_npartitions;         /* number of partitions in following */
uint32_t d_bbsize;         /* size of boot area at sn0, bytes */
uint32_t d_sbsize;         /* max size of fs superblock, bytes */

struct bsd_partition  {  /* the partition table */
```

```
  uint32_t p_size;        /* number of sectors in partition */
  uint32_t p_offset;      /* starting sector */
  uint32_t p_fsize;       /* filesystem basic fragment size */
  uint8_t  p_fstype; /* filesystem type, see below */
  uint8_t  p_frag;  /* filesystem fragments per block */
  uint16_t p_cpg;         /* filesystem cylinders per group */
 } __attribute__((packed))
 d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values: */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7
   3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
```

```
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /*
 removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_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
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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_seal.c
lib/gssapi/mechglue/g_sign.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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Version 3, 29 June 2007

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17.
Interpretation of Sections 15 and 16.

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1.105 bcpkix-fips 1.77

1.105.1 Available under license :

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

Known suffixes is a list of public domain suffixes that can't be used as wild cards for

Found in path(s):
* /bcpkix-jdk18on-177-tar-gz/bcpkix-jdk18on-177/javadoc/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.html
No license file was found, but licenses were detected in source scan.

<html>
<body bgcolor=#ffffff>

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CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER
DEALINGS IN THE SOFTWARE.
</body>
</html>

Found in path(s):
* /bcpkix-jdk18on-177-tar-gz/bcpkix-jdk18on-177/LICENSE.html

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

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

Found in path(s):
* /bcpkix-jdk18on-177-tar-gz/bcpkix-jdk18on-177/src-zip/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java
No license file was found, but licenses were detected in source scan.

```
<html>
<head>
<title>Bouncy Castle Crypto Package</title>
</head>

<body bgcolor="#ffffff" text="#000000#">

<center>
<h1>Bouncy Castle Crypto Package</h1>
<font size=1>
<pre>
</pre>
</font>
</center>
<h2>1.0 Introduction</h2>
The Bouncy Castle Crypto package is a Java implementation of
cryptographic algorithms.  The package is organised so that it
contains a light-weight API suitable for use in any environment
(including the newly released J2ME) with the additional infrastructure
to conform the algorithms to the JCE framework.
<p>
Except where otherwise stated, this software is distributed under a license
based on the MIT X
Consortium license.  To view the license, see <a href="./LICENSE.html">here</a>.
The OpenPGP library also includes a modified BZIP2 library which
is licensed under the <a href="https://www.apache.org/licenses/">Apache Software License, Version 2.0</a>.
```

If you have the full package you will
have six jar files, bcprov*.jar
which contains the BC provider, jce-*.jar which contains
the JCE provider, clean room API, and bcmail*.jar which contains the
mail API.

Note: if you are using JDK 1.0, you will just find a class hierarchy in
the classes directory.

To view examples, look at the test programs in the packages:

org.bouncycastle.crypto.test
org.bouncycastle.jce.provider.test

To verify the packages, run the following Java programs with the
appropriate classpath:

java org.bouncycastle.crypto.test.RegressionTest
java org.bouncycastle.jce.provider.test.RegressionTest

<h2>2.0 Patents</h2>

Some of the algorithms in the Bouncy Castle APIs are patented in some
places. It is upon the user of the library to be aware of what the
legal situation is in their own situation, however we have been asked
to specifically mention the patents below, in the following terms, at
the request of the patent holder.

The
BC distribution contains implementations of EC MQV as described in RFC 5753, "Use of ECC Algorithms in CMS". In line with the conditions in:
<pre>
https://www.ietf.org/ietf-ftp/IPR/certicom-ipr-rfc-5753.pdf
</pre>
We state, where EC MQV has not otherwise been disabled or removed:</br />

"The use of this product or service is subject to the reasonable, non-discriminatory terms in the Intellectual Property Rights (IPR) Disclosures of Certicom Corp. at the IETF for Use of Elliptic Curve Cryptography (ECC) Algorithms in Cryptographic Message Syntax (CMS) implemented in the product or service."

<h2>3.0 System Properties</h2>
The Bouncy Castle provider can make use of the following two system properties:

org.bouncycastle.ec.disable_mqv - setting this property to true will disable support for EC MQV in the provider.
org.bouncycastle.pkcs1.not_strict - some other providers
 of cryptography services fail to produce PKCS1 encoded block that are the correct length. Setting this property to true will relax the conformance check on the block length.

<h2>4.0 Specifications</h2>

 clean room implementation of the JCE API
 light-weight cryptographic API consisting of support for

  BlockCipher
  BufferedBlockCipher
  AsymmetricBlockCipher
  BufferedAsymmetricBlockCipher
  StreamCipher
  BufferedStreamCipher
      KeyAgreement
      IESCipher
  Digest
  Mac
  PBE
  Signers

 JCE compatible framework for a Bouncy Castle provider "BC".
 JCE compatible framework for a Bouncy Castle post-quantum provider "BCPQC".

<h2>5.0 Light-weight API</h2>

<p>
This API has been specifically developed for those circumstances
where the rich API and integration requirements of the JCE are
not required.

<p>
However as a result, the light-weight API requires more effort
and understanding on the part of a developer to initialise and
utilise the algorithms.

<h3>5.1 Example</h3>

<p>To utilise the light-weight API in a program, the fundamentals
are as follows;

<pre>

<code>
/*
 * This will use a supplied key, and encrypt the data
 * This is the equivalent of DES/CBC/PKCS5Padding
 */
BlockCipher engine = new DESEngine();
BufferedBlockCipher cipher = new PaddedBlockCipher(new CBCCipher(engine));

byte[] key = keyString.getBytes();
byte[] input = inputString.getBytes();

cipher.init(true, new KeyParameter(key));

byte[] cipherText = new byte[cipher.getOutputSize(input.length)];

int outputLen = cipher.processBytes(input, 0, input.length, cipherText, 0);
try
{
 cipher.doFinal(cipherText, outputLen);
}
catch (CryptoException ce)
{
 System.err.println(ce);
 System.exit(1);
}
</code>
</pre>

<h3>5.2 Algorithms</h3>

<p>The light-weight API has built in support for the following:

<h4>Symmetric
(Block)</h4>

<p>
The base interface is BlockCipher and has the following
implementations which match the modes the block cipher can
be operated in.
<p>
<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Constructor</th><th>Notes</th></tr>
<tr><td>BufferedBlockCipher</td><td>BlockCipher</td><td> </td></tr>
<tr><td>CBCBlockCipher</td><td>BlockCipher</td><td> </td></tr>
<tr><td>CFBBlockCipher</td><td>BlockCipher, block size (in bits)</td><td> </td></tr>
<tr><td>GCFBlockCipher</td><td>BlockCipher</td><td>GOST CFB mode with CryptoPro key
meshing.</td></tr>
<tr><td>EAXBlockCipher</td><td>BlockCipher</td><td> </td></tr>

<tr><td>OCBBlockCipher</td><td>BlockCipher</td><td> </td></tr>
<tr><td>OFBBlockCipher</td><td>BlockCipher, block size (in bits)</td><td> </td></tr>
<tr><td>SICBlockCipher</td><td>BlockCipher, block size (in bits)</td><td>Also known as CTR mode</td></tr>
<tr><td>KCTRBlockCipher</td><td>BlockCipher, block size (in bits)</td><td>DSTU7624 CTR mode</td></tr>
<tr><td>OpenPGPCFBBlockCipher</td><td>BlockCipher</td><td> </td></tr>
<tr><td>GOFBBlockCipher</td><td>BlockCipher</td><td>GOST OFB mode</td></tr>
</table>

The base interface for AEAD (Authenticated Encryption Associated Data) modes is AEADBlockCipher and has the following implemenations.

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Constructor</th><th>Notes</th></tr>
<tr><td>CCMBlockCipher</td><td>BlockCipher</td><td>Packet mode - requires all data up front.</td></tr>
<tr><td>EAXBlockCipher</td><td>BlockCipher</td><td> </td></tr>
<tr><td>CCMBlockCipher</td><td>BlockCipher</td><td>Packet mode - requires all data up front.</td></tr>
<tr><td>GCMBlockCipher</td><td>BlockCipher</td><td>Packet mode - NIST SP 800-38D.</td></tr>
<tr><td>GCMSIVBlockCipher</td><td>BlockCipher</td><td>Packet mode - RFC 8452.</td></tr>
<tr><td>KCCMBlockCipher</td><td>BlockCipher</td><td>DSTU 7624 Packet mode - requires all data up front.</td></tr>
<tr><td>OCBBlockCipher</td><td>BlockCipher</td><td> </td></tr>
<tr><td>ChaCha20Poly1305</td><td>AEADCipher</td><td> </td></tr>
</table>

BufferedBlockCipher has a further sub-classes

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Constructor</th><th>Notes</th></tr>
<tr><td>PaddedBufferedBlockCipher</td><td>BlockCipher</td><td>a buffered block cipher that can use padding - default PKCS5/7 padding</td></tr>
<tr><td>CTSBlockCipher</td><td>BlockCipher</td><td>Cipher Text Stealing</td></tr>
<tr><td>NISTCTSBlockCipher</td><td>BlockCipher</td><td>Cipher Text Stealing - NIST mode set.</td></tr>
</table>

The following paddings can be used with the PaddedBufferedBlockCipher.

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Description</th></tr>
<tr><td>PKCS7Padding</td><td>PKCS7/PKCS5

padding</td></tr>
<tr><td>ISO10126d2Padding</td><td>ISO 10126-2 padding</td></tr>
<tr><td>X932Padding</td><td>X9.23 padding</td></tr>
<tr><td>ISO7816d4Padding</td><td>ISO 7816-4 padding (ISO 9797-1 scheme 2)</td></tr>
<tr><td>ZeroBytePadding</td><td>Pad with Zeros (not recommended)</td></tr>
</table>

<p>The following cipher engines are implemented that can be
used with the above modes.
<p>
<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>KeySizes (in bits) </th><th>Block Size</th><th>Notes</th></tr>
<tr><td>AESEngine</td><td>0 .. 256 </td><td>128 bit</td><td> </td></tr>
<tr><td>AESWrapEngine</td><td>0 .. 256 </td><td>128 bit</td><td>Implements FIPS AES key
wrapping</td></tr>
<tr><td>AsconEngine</td><td>128</td><td>128 bit</td><td>AEAD Cipher</td></tr>
<tr><td>BlowfishEngine</td><td>0 .. 448 </td><td>64 bit</td><td> </td></tr>
<tr><td>CamelliaEngine</td><td>128,
192, 256</td><td>128 bit</td><td> </td></tr>
<tr><td>CamelliaWrapEngine</td><td>128, 192, 256</td><td>128 bit</td><td> </td></tr>
<tr><td>CAST5Engine</td><td>0 .. 128 </td><td>64 bit</td><td> </td></tr>
<tr><td>CAST6Engine</td><td>0 .. 256 </td><td>128 bit</td><td> </td></tr>
<tr><td>DESEngine</td><td>64</td><td>64 bit</td><td> </td></tr>
<tr><td>DESedeEngine</td><td>128, 192</td><td>64 bit</td><td> </td></tr>
<tr><td>DESedeWrapEngine</td><td>128, 192</td><td>64 bit</td><td>Implements Draft IETF DESede
key wrapping</td></tr>
<tr><td>DSTU7624Engine</td><td>128, 256, 512</td><td>128/256/512 bit</td><td>DSTU7624 Block
Cipher</td></tr>
<tr><td>DSTU7624WrapEngine</td><td>128, 256, 512</td><td>128/256/512 bit</td><td>DSTU7624
key wrapper</td></tr>
<tr><td>ElephantEngine</td><td>128</td><td>128 bit</td><td>AEAD Cipher</td></tr>
<tr><td>GOST28147Engine</td><td>256</td><td>64
bit</td><td>Has a range of S-boxes</td></tr>
<tr><td>GOST3412_2015Engine</td><td>256</td><td>128 bit</td><td> </td></tr>
<tr><td>IDEAEngine</td><td>128</td><td>64 bit</td><td> </td></tr>
<tr><td>ISAPEngine</td><td>128</td><td>128 bit</td><td>AEAD Cipher</td></tr>
<tr><td>LEAEngine</td><td>128</td><td>128/192/256 bit</td><td> </td></tr>
<tr><td>NoekeonEngine</td><td>128</td><td>128 bit</td><td> </td></tr>
<tr><td>PhotonBeetleEngine</td><td>128</td><td>128 bit</td><td>AEAD Cipher</td></tr>
<tr><td>RC2Engine</td><td>0 .. 1024 </td><td>64 bit</td><td> </td></tr>
<tr><td>RC532Engine</td><td>0 .. 128 </td><td>64 bit</td><td>Uses a 32 bit word</td></tr>
<tr><td>RC564Engine</td><td>0 .. 128 </td><td>128 bit</td><td>Uses a 64 bit word</td></tr>
<tr><td>RC6Engine</td><td>0 .. 256 </td><td>128 bit</td><td> </td></tr>
<tr><td>RijndaelEngine</td><td>0 .. 256 </td><td>128
bit, 160 bit, 192 bit, 224 bit, 256 bit</td><td> </td></tr>
<tr><td>SEEDEngine</td><td>128</td><td>128 bit</td><td> </td></tr>
<tr><td>SEEDWrapEngine</td><td>128</td><td>128 bit</td><td> </td></tr>
<tr><td>Shacal2Engine</td><td>512</td><td>256 bit</td><td> </td></tr>

<tr><td>SerpentEngine</td><td>128, 192, 256 </td><td>128 bit</td><td> </td></tr>
<tr><td>SkipjackEngine</td><td>0 .. 128 </td><td>64 bit</td><td> </td></tr>
<tr><td>SM4Engine</td><td>128</td><td>128 bit</td><td> </td></tr>
<tr><td>SparkleEngine</td><td>128</td><td>128 bit</td><td>AEAD Cipher</td></tr>
<tr><td>TEAEngine</td><td>128</td><td>64 bit</td><td> </td></tr>
<tr><td>ThreefishEngine</td><td>256/512/1024 </td><td>256 bit/512 bit/1024 bit</td><td>Tweakable block cipher</td></tr>
<tr><td>TwofishEngine</td><td>128, 192, 256 </td><td>128 bit</td><td> </td></tr>
<tr><td>XoodyakEngine</td><td>128</td><td>128 bit</td><td>AEAD Cipher</td></tr>
<tr><td>XTEAEngine</td><td>128</td><td>64 bit</td><td> </td></tr>
</table>

The following additional key wrapping algorithms are also available: RFC3211WrapEngine, RFC3394WrapEngine, and RFC5649WrapEngine.

<h4>Symmetric (Stream)</h4>

The base interface is StreamCipher and has the following implementations which match the modes the stream cipher can be operated in.

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Constructor</th><th>Notes</th></tr>
<tr><td>BlockStreamCipher</td><td>BlockCipher</td><td> </td></tr>
</table>
The following cipher engines are implemented that can be used with the above modes.

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>KeySizes (in bits) </th><th>Notes</th></tr>
<tr><td>RC4Engine</td><td>40 .. 2048</td><td> </td></tr>
<tr><td>HC128Engine</td><td>128</td><td> </td></tr>
<tr><td>HC256Engine</td><td>256</td><td> </td></tr>
<tr><td>ChaChaEngine</td><td>128/256</td><td>64 bit IV</td></tr>
<tr><td>Salsa20Engine</td><td>128/256</td><td>64 bit IV</td></tr>
<tr><td>XSalsa20Engine</td><td>256</td><td>192 bit IV</td></tr>
<tr><td>ISAACEngine</td><td>32 .. 8192</td><td> </td></tr>
<tr><td>VMPCEngine</td><td>8 .. 6144</td><td> </td></tr>
<tr><td>Grainv1Engine</td><td>80</td><td>64 bit IV</td></tr>
<tr><td>Grain128Engine</td><td>128</td><td>96 bit IV</td></tr>
<tr><td>Zuc128Engine</td><td>128</td><td>128 bit IV</td></tr>
<tr><td>Zuc256Engine</td><td>256</td><td>200 bit IV</td></tr>
</table>

<h4>Block Asymmetric</h4>

The base interface is AsymmetricBlockCipher and has the following
implementations which match the modes the cipher can be operated in.

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Constructor</th><th>Notes</th></tr>
<tr><td>BufferedAsymmetricBlockCipher</td><td>AsymmetricBlockCipher</td><td> </td></tr>
<tr><td>OAEPEncoding</td><td>AsymmetricBlockCipher</td><td> </td></tr>
<tr><td>PKCS1Encoding</td><td>AsymmetricBlockCipher</td><td> </td></tr>
<tr><td>ISO9796d1Encoding</td><td>AsymmetricBlockCipher</td><td>ISO9796-1</td></tr>
</table>

The
following cipher engines are implemented that can be
used with the above modes.

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>KeySizes (in bits)</th><th>Notes</th></tr>
<tr><td>RSAEngine</td><td>any multiple of 8 large enough for the encoding.</td><td> </td></tr>
<tr><td>ElGamalEngine</td><td>any multiple of 8 large enough for the
encoding.</td><td> </td></tr>
<tr><td>NTRUEngine</td><td>any multiple of 8 large enough for the
encoding.</td><td> </td></tr>
</table>
The following asymmetric ciphers are also supported and allow variable block sizes:

IESEngine
SM2Engine

<h4>Digest</h4>

The
base interface is Digest and has the following
implementations

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Output (in bits)</th><th>Notes</th></tr>
<tr><td>AsconDigest</td><td>256</td><td></td></tr>
<tr><td>AsconXof</td><td>XOF</td><td></td></tr>
<tr><td>Blake2bDigest</td><td>224, 256, 384, 512</td><td></td></tr>
<tr><td>Blake3Digest</td><td>224, 256, 384, 512</td><td></td></tr>

<tr><td>CSHAKEDigest</td><td>XOF</td><td>SP 800-185, based on
SHAKE128/SHAKE256</td></tr>
<tr><td>DSTU7564Digest</td><td>256, 384, 512</td><td></td></tr>
<tr><td>ISAPDigest</td><td>256</td><td></td></tr>
<tr><td>Kangaroo</td><td>XOF</td><td>Built on Keccak-p</td></tr>
<tr><td>KeccakDigest</td><td>224, 256, 288, 384, 512</td><td></td></tr>
<tr><td>MD2Digest</td><td>128</td><td> </td></tr>
<tr><td>MD4Digest</td><td>128</td><td> </td></tr>
<tr><td>MD5Digest</td><td>128</td><td> </td></tr>
<tr><td>ParallelHash</td><td>XOF</td><td>XOF
based on cSHAKE (SP 800-185).</td></tr>
<tr><td>PhotonBeetleDigest</td><td>256</td><td></td></tr>
<tr><td>RipeMD128Digest</td><td>128</td><td>basic RipeMD</td></tr>
<tr><td>RipeMD160Digest</td><td>160</td><td>enhanced version of RipeMD</td></tr>
<tr><td>RipeMD256Digest</td><td>256</td><td>expanded version of RipeMD128</td></tr>
<tr><td>RipeMD320Digest</td><td>320</td><td>expanded version of RipeMD160</td></tr>
<tr><td>SHA1Digest</td><td>160</td><td> </td></tr>
<tr><td>SHA224Digest</td><td>224</td><td>FIPS 180-2</td></tr>
<tr><td>SHA256Digest</td><td>256</td><td>FIPS 180-2</td></tr>
<tr><td>SHA384Digest</td><td>384</td><td>FIPS 180-2</td></tr>
<tr><td>SHA512Digest</td><td>512</td><td>FIPS 180-2</td></tr>
<tr><td>SHA3Digest</td><td>224, 256, 384, 512</td><td></td></tr>
<tr><td>SHAKEDigest</td><td>128,
256</td><td>cSHAKE primitive also supported.</td></tr>
<tr><td>SkeinDigest</td><td>any byte length</td><td>256 bit, 512 bit and 1024 state sizes. Additional
parameterisation using SkeinParameters.</td></tr>
<tr><td>SM3Digest</td><td>256</td><td>The SM3 Digest.</td></tr>
<tr><td>SparkleDigest</td><td>256</td><td></td></tr>
<tr><td>TigerDigest</td><td>192</td><td>The Tiger Digest.</td></tr>
<tr><td>TupleHash</td><td>XOF</td><td>XOF based on cSHAKE (SP 800-185).</td></tr>
<tr><td>GOST3411Digest</td><td>256</td><td>The GOST-3411 Digest.</td></tr>
<tr><td>GOST3411_2012_256Digest</td><td>256</td><td>The GOST-3411-2012-256
Digest.</td></tr>
<tr><td>GOST3411_2012_512Digest</td><td>512</td><td>The GOST-3411-2012-512
Digest.</td></tr>
<tr><td>WhirlpoolDigest</td><td>512</td><td>The Whirlpool Digest.</td></tr>
<tr><td>Haraka256Digest</td><td>256</td><td>Haraka V2 - 256 bit input version.</td></tr>
<tr><td>Haraka512Digest</td><td>256</td><td>Haraka
V2 - 512 bit input version.</td></tr>
<tr><td>XoodyakDigest</td><td>256</td><td></td></tr>
</table>

<h4>MAC</h4>

<p>
The base interface is Mac and has the following
implementations
<p>

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Output (in bits)</th><th>Notes</th></tr>
<tr><td>CBCBlockCipherMac</td><td>blocksize/2 unless specified</td><td> </td></tr>
<tr><td>CFBBlockCipherMac</td><td>blocksize/2, in CFB 8 mode, unless
specified</td><td> </td></tr>
<tr><td>CMac</td><td>24 to cipher block size bits</td><td>Usable with block ciphers, NIST SP 800-38B.</td></tr>
<tr><td>GMac</td><td>32 to 128 bits</td><td>Usable with GCM mode ciphers, defined for AES, NIST SP 800-38D.</td></tr>
<tr><td>GOST28147Mac</td><td>32 bits</td><td> </td></tr>
<tr><td>ISO9797Alg3Mac</td><td>multiple of 8 bits up to underlying cipher
size.</td><td> </td></tr>
<tr><td>HMac</td><td>digest
length</td><td> </td></tr>
<tr><td>DSTU7564</td><td>256, 384, 512 bits</td><td> </td></tr>
<tr><td>DSTU7624</td><td>128, 256, 512 bits</td><td> </td></tr>
<tr><td>Poly1305</td><td>128 bits</td><td>Usable with 128 bit block ciphers. Use
Poly1305KeyGenerator to generate keys.</td></tr>
<tr><td>SkeinMac</td><td>any byte length</td><td>256 bit, 512 bit and 1024 state size variants.
Additional parameterisation using SkeinParameters.</td></tr>
<tr><td>SipHash</td><td>64 bits</td><td> </td></tr>
<tr><td>SipHash128</td><td>128 bits</td><td> </td></tr>
<tr><td>VMPCMac</td><td>160 bits</td><td> </td></tr>
<tr><td>Zuc128Mac</td><td>32 bits</td><td> </td></tr>
<tr><td>Zuc256Mac</td><td>32, 64, 128 bits</td><td> </td></tr>
</table>

<h4>PBE and Password Hashing</h4>

The base class is PBEParametersGenerator and has the following
sub-classes

<table
cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Constructor</th><th>Notes</th></tr>
<tr><td>PKCS5S1ParametersGenerator</td><td>Digest</td><td> </td></tr>
<tr><td>PKCS5S2ParametersGenerator</td><td> </td><td>Uses SHA1/Hmac as defined</td></tr>
<tr><td>PKCS12ParametersGenerator</td><td>Digest</td><td> </td></tr>
<tr><td>OpenSSLPBEParametersGenerator</td><td> </td><td>Uses MD5 as defined</td></tr>
</table>

The following password hashing schemes are supported:

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Constructor</th><th>Notes</th></tr>
<tr><td>Argon2</td><td> </td><td> </td></tr>
<tr><td>BCrypt</td><td> </td><td> </td></tr>

<tr><td>OpenBSDBcyrpt</td><td> </td><td> </td></tr>
<tr><td>SCrypt</td><td> </td><td> </td></tr>
</table>

<h4>IESCipher</h4>

The IES cipher is based on the one described
 in IEEE P1363a (draft 10), for
use with either traditional Diffie-Hellman or Elliptic Curve Diffie-Hellman.

Note: At the moment this is still a draft, don't use it for anything
that may be subject to long term storage, the key values produced may well
change as the draft is finalised.

<h4>Commitments</h4>

The base class is Committer and has the following
sub-classes

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Notes</th></tr>
<tr><td>HashCommitter</td><td>Hash commitment algorithm described in Usenix RPC MixNet Paper (2002)</td></tr>
</table>

<h4>Key Agreement</h4>

Two versions of Diffie-Hellman key agreement are supported, the basic
version, and one for use with long term public keys. Two versions of
key agreement using Elliptic Curve cryptography are also supported,
standard Diffie-Hellman key agreement and standard key agreement with
co-factors.

The agreement APIs are in the org.bouncycastle.crypto.agreement
 package.
Classes for generating Diffie-Hellman parameters can be found in the
org.bouncycastle.crypto.params and org.bouncycastle.crypto.generators packages.

<h4>Key Encapsulation Mechanisms</h4>

The first non-post-quantum set use the EncapsulatedSecretGenerator and
EncapsulatedSecretGenerator interfaces.

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<thead>

<tr><th>Name</th><th>Notes</th></tr>
</thead>
<tbody>
<tr><td>RSA</td><td>RSA-KEM from ISO 18033-2, implemented in RSAKEMExtractor and
RSAKEMGenerator</td></tr>
<tr><td>ECIES</td><td>ECIES-KEM from ISO 18033-2, implemented in ECIESKEMExtractor
and ECIESKEMGenerator</td></tr>
</tbody>
</table>

The second, post-quantum set use EncapsulatedSecretGenerator and EncapsulatedSecretGenerator.

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tbody>
<tr><th>Name</th><th>Security Strength (in bits)</th><th>Implementations</th><th>Notes</th></tr>
<tr><td>BIKE</td><td>128-256.</td><td>BIKEKEMGenerator,
BIKEKEMExtractor<td>Round 4</td></tr>
<tr><td>Classic McEliece</td><td>128-256.</td><td>CMCEKEMGenerator,
CMCEKEMExtractor</td><td>Round 4</td></tr>
<tr><td>FrodoKEM</td><td>128-256.</td><td>FrodoKEMGenerator,
FrodoKEMExtractor</td><td></td></tr>
<tr><td>HQC</td><td>128-256.</td><td>HQCKEMGenerator,
HQCKEMExtractor</td><td>Round 4</td></tr>
<tr><td>Kyber</td><td>128-256.</td><td>KyberKEMGenerator,
KyberKEMExtractor</td><td>Finalist</td></tr>
<tr><td>NTRU</td><td>128-256.</td><td>NTRUKEMGenerator,
NTRUKEMExtractor</td><td></td></tr>
<tr><td>NTRU Prime</td><td>128-256.</td><td>NTRULPRimeKEMGenerator,
NTRULPRimeKEMExtractor
 SNTRUPrimeKEMGenerator,
SNTRUPrimeKEMExtractor</td><td></td></tr>
<tr><td>SABER</td><td>128-256.</td><td>SABERKEMGenerator,
SABERKEMExtractor</td><td></td></tr>
</tbody>
</table>

<h4>Signers</h4>

DSA, ECDSA, ISO-9796-2, GOST-3410-94, GOST-3410-2001, GOST-3410-2012, DSTU-4145-2002, and RSA-PSS are supported by the org.bouncycastle.crypto.signers
package. Note: as these are light weight classes, if you need to use SHA1 or GOST-3411
(as defined in the relevant standards) you'll also need to make use of the appropriate
digest class in conjunction with these.
Classes for generating DSA and ECDSA parameters can be found in the
org.bouncycastle.crypto.params and org.bouncycastle.crypto.generators packages.

<h3>5.4 Elliptic Curve Transforms.</h3>

The org.bouncycastle.crypto.ec package contains implementations for a variety of EC cryptographic transforms such as EC ElGamal.

<h3>5.5 TLS/DTLS</h3>

The org.bouncycastle.crypto.tls package contains implementations for TLS 1.1, 1.2 and DTLS 1.0, 1.2.

<h3>5.6
Deterministic Random Bit Generators (DRBG) and SecureRandom wrappers</h3>

The org.bouncycastle.crypto.prng package contains implementations for a variety of bit generators including those from SP 800-90A and X9.31, as well as builders for SecureRandom objects based around them.

<h3>5.7 ASN.1 package</h3>

The light-weight API has direct interfaces into a package capable of
reading and writing DER-encoded ASN.1 objects and for the generation
of X.509 V3 certificate objects and PKCS12 files. BER InputStream and
OutputStream classes are provided as well.

<h2>6.0 Bouncy Castle Provider</h2>

The Bouncy Castle provider is a JCE compliant provider that
is a wrapper built on top of the light-weight API. The main provider is referred to with the name "BC", the post quantum provider is indicated by "BCPQC".

The advantage for writing application code that uses the
provider interface to cryptographic algorithms is that the
actual provider used can be selected at run
time. This
is extremely valuable for applications that may wish to
make use of a provider that has underlying hardware for
cryptographic computation, or where an application may have
been developed in an environment with cryptographic export
controls.

<h3>6.1 Example</h3>

To utilise the JCE provider in a program, the fundamentals

are as follows;

<pre>
<code>
 /*
  * This will generate a random key, and encrypt the data
  */
 Key key;
 KeyGenerator keyGen;
 Cipher encrypt;

 Security.addProvider(new BouncyCastleProvider());

 try
 {
  // "BC" is the name of the BouncyCastle provider
  keyGen = KeyGenerator.getInstance("DES", "BC");
  keyGen.init(new SecureRandom());

  key = keyGen.generateKey();

  encrypt = Cipher.getInstance("DES/CBC/PKCS5Padding", "BC");
 }
 catch (Exception e)
 {
  System.err.println(e);
  System.exit(1);
 }

 encrypt.init(Cipher.ENCRYPT_MODE, key);

 bOut = new ByteArrayOutputStream();
 cOut = new CipherOutputStream(bOut, encrypt);

 cOut.write("plaintext".getBytes());
 cOut.close();

 //
 bOut now contains the cipher text
</code>
</pre>
<p>
The provider can also be configured as part of your environment via static registration
by adding an entry to the java.security properties file (found in $JAVA_HOME/jre/lib/security/java.security, where
$JAVA_HOME is the location of your JDK/JRE distribution). You'll find detailed
instructions in the file but basically it comes down to adding a line:
<pre>
<code>

security.provider.<n>=org.bouncycastle.jce.provider.BouncyCastleProvider
</code>
</pre>
<p>Where <n> is the preference you want the provider at (1 being the most prefered).
<p>Where you put the jar is up to mostly up to you, although with jdk1.3 and
jdk1.4 the best (and in some cases only) place to have it is in $JAVA_HOME/jre/lib/ext. Note: under Windows there will normally be a JRE and a JDK install of Java if you think you have installed it correctly and it still doesn't work chances are you have added the provider
to the installation not being used.
<p>
Note: with JDK 1.4 and later you will need to have installed the unrestricted policy
files to take full advantage of the provider. If you do not install the policy files you are likely
to get something like the following:

<pre>
java.lang.SecurityException: Unsupported keysize or algorithm parameters
at javax.crypto.Cipher.init(DashoA6275)
</pre>

The policy files can be found at the same place you downloaded the JDK.
<p>
<h3>6.2 Algorithms</h3>

<h4>Symmetric (Block)</h4>

<p>Modes:

ECB
CBC
OFB(n)
CFB(n)
SIC (also known as CTR)
OpenPGPCFB
CTS (equivalent to CBC/WithCTS)
FF1
FF3-1
GOFB
GCFB
CCM (AEAD)
EAX (AEAD)
GCM (AEAD)
GCM-SIV (AEAD)
OCB (AEAD)

<p>
Where (n) is a multiple of 8 that gives the blocksize in bits,
eg, OFB8. Note that OFB and CFB

mode can be used with plain text that
is not an exact multiple of the block size if NoPadding has been specified.
<p>
All AEAD (Authenticated Encryption Associated Data) modes support
Additional Authentication Data (AAD) using the <code>Cipher.updateAAD()</code>
methods added in Java SE 7.
On Java 7 and later, AEAD modes will throw <code>javax.crypto.AEADBadTagException</code> on an
authentication failure.
On earlier version of Java, <code>javax.crypto.BadPaddingException</code> is thrown.
<p>

Padding Schemes:

No padding
PKCS5/7
ISO10126/ISO10126-2
ISO7816-4/ISO9797-1
X9.23/X923
TBC
ZeroByte
withCTS (if used with ECB mode)

<p>
When placed together this gives a specification for an algorithm
as;

DES/CBC/X9.23Padding
DES/OFB8/NoPadding
IDEA/CBC/ISO10126Padding
IDEA/CBC/ISO7816-4Padding
SKIPJACK/ECB/PKCS7Padding
DES/ECB/WithCTS

<p>
Note: default key sizes are in bold.
<p>
<table cellpadding=5 cellspacing=0
border=1 width=80%>
<tr><th>Name</th><th>KeySizes (in bits) </th><th>Block Size</th><th>Notes</th></tr>
<tr><td>AES</td><td>0 .. 256 (192)</td><td>128 bit</td><td> </td></tr>
<tr><td>AESWrap</td><td>0 .. 256 (192)</td><td>128 bit</td><td>A FIPS AES key wrapper</td></tr>
<tr><td>ARIA</td><td>0 .. 256 (192)</td><td>128 bit</td><td> </td></tr>
<tr><td>ARIAWrap</td><td>0 .. 256 (192)</td><td>128 bit</td><td>An ARIA key wrapper (based on
RFC 5649)</td></tr>
<tr><td>Blowfish</td><td>0 .. 448 (448)</td><td>64 bit</td><td> </td></tr>

<tr><td>Camellia</td><td>128, 192, 256</td><td>128 bit</td><td> </td></tr>
<tr><td>CamelliaWrap</td><td>128, 192, 256</td><td>128 bit</td><td> </td></tr>
<tr><td>CAST5</td><td>0 .. 128(128)</td><td>64 bit</td><td> </td></tr>
<tr><td>CAST6</td><td>0 .. 256(256)</td><td>128 bit</td><td> </td></tr>
<tr><td>DES</td><td>64</td><td>64 bit</td><td> </td></tr>
<tr><td>DESede</td><td>128,
192</td><td>64 bit</td><td> </td></tr>
<tr><td>DESedeWrap</td><td>128, 192</td><td>128 bit</td><td>A Draft IETF DESede key wrapper</td></tr>
<tr><td>DSTU7624</td><td>128, 256, 512</td><td>128/256/512 bit</td><td>DSTU7624 Block
Cipher</td></tr>
<tr><td>DSTU7624Wrap</td><td>128, 256, 512</td><td>128/256/512 bit</td><td>DSTU7624 key
wrapper</td></tr>
<tr><td>GCM</td><td>128, 192, 256(192)</td><td>AEAD Mode Cipher</td><td>Galois/Counter Mode,
as defined in NIST Special Publication SP 800-38D.</td></tr>
<tr><td>GOST28147</td><td>256</td><td>64 bit</td><td> </td></tr>
<tr><td>IDEA</td><td>128 (128)</td><td>64 bit</td><td> </td></tr>
<tr><td>Noekeon</td><td>128(128)</td><td>128 bit</td><td> </td></tr>
<tr><td>RC2</td><td>0 .. 1024 (128)</td><td>64 bit</td><td> </td></tr>
<tr><td>RC5</td><td>0 .. 128 (128)</td><td>64 bit</td><td>Uses a 32 bit word</td></tr>
<tr><td>RC5-64</td><td>0 .. 256 (256)</td><td>128 bit</td><td>Uses
a 64 bit word</td></tr>
<tr><td>RC6</td><td>0 .. 256 (128)</td><td>128 bit</td><td> </td></tr>
<tr><td>Rijndael</td><td>0 .. 256 (192)</td><td>128 bit</td><td> </td></tr>
<tr><td>SEED</td><td>128(128)</td><td>128 bit</td><td> </td></tr>
<tr><td>SEEDWrap</td><td>128(128)</td><td>128 bit</td><td> </td></tr>
<tr><td>Serpent</td><td>128, 192, 256 (256)</td><td>128 bit</td><td> </td></tr>
<tr><td>Skipjack</td><td>0 .. 128 (128)</td><td>64 bit</td><td> </td></tr>
<tr><td>SM4</td><td>128(128)</td><td>128 bit</td><td> </td></tr>
<tr><td>TEA</td><td>128 (128)</td><td>64 bit</td><td> </td></tr>
<tr><td>Threefish-256</td><td>256</td><td>256 bit</td><td> </td></tr>
<tr><td>Threefish-512</td><td>512</td><td>512 bit</td><td> </td></tr>
<tr><td>Threefish-1024</td><td>1024</td><td>1024 bit</td><td> </td></tr>
<tr><td>Twofish</td><td>128, 192, 256 (256)</td><td>128 bit</td><td> </td></tr>
<tr><td>XTEA</td><td>128
(128)</td><td>64 bit</td><td> </td></tr>
</table>

<h4>Symmetric (Stream)</h4>

<p>
Note: default key sizes are in bold.
<p>
<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>KeySizes (in bits)</th><th>Notes</th></tr>
<tr><td>RC4</td><td>40 .. 2048 bits (128)</td><td> </td></tr>
<tr><td>HC128</td><td>(128)</td><td> </td></tr>
<tr><td>HC256</td><td>(256)</td><td> </td></tr>
<tr><td>ChaCha</td><td>128/256</td><td>64 bit IV</td></tr>

<tr><td>Salsa20</td><td>128/256</td><td>64 bit IV</td></tr>
<tr><td>XSalsa20</td><td>256</td><td>182 bit IV</td></tr>
<tr><td>VMPC</td><td>128/6144(128)</td><td> </td></tr>
<tr><td>Grainv1</td><td>80</td><td>64 bit IV</td></tr>
<tr><td>Grain128</td><td>128</td><td>96 bit IV</td></tr>
<tr><td>Grain128AEAD</td><td>128</td><td>96 bit IV</td></tr>
<tr><td>Zuc128</td><td>128</td><td>128 bit IV</td></tr>
<tr><td>Zuc256</td><td>256</td><td>200
bit IV</td></tr>
</table>

<h4>Block Asymmetric</h4>

<p>Encoding:

OAEP - Optimal Asymmetric Encryption Padding
PCKS1 - PKCS v1.5 Padding
ISO9796-1 - ISO9796-1 edition 1 Padding

<p>Note: except as indicated in PKCS 1v2 we recommend you use OAEP, as
mandated in X9.44.

<p>
When placed together with RSA this gives a specification for an algorithm
as;

RSA/NONE/NoPadding
RSA/NONE/PKCS1Padding
RSA/NONE/OAEPWithMD5AndMGF1Padding
RSA/NONE/OAEPWithSHA1AndMGF1Padding
RSA/NONE/OAEPWithSHA224AndMGF1Padding
RSA/NONE/OAEPWithSHA256AndMGF1Padding
RSA/NONE/OAEPWithSHA384AndMGF1Padding
RSA/NONE/OAEPWithSHA512AndMGF1Padding
RSA/NONE/OAEPWithSHA3-224AndMGF1Padding
RSA/NONE/OAEPWithSHA3-256AndMGF1Padding
RSA/NONE/OAEPWithSHA3-384AndMGF1Padding
RSA/NONE/OAEPWithSHA3-512AndMGF1Padding
RSA/NONE/ISO9796-1Padding

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>KeySizes
(in bits)</th><th>Notes</th></tr>
<tr><td>RSA</td><td>any multiple of 8 bits large enough for the
encryption(2048)</td><td> </td></tr>
<tr><td>ElGamal</td><td>any multiple of 8 bits large enough for the
encryption(1024)</td><td> </td></tr>

</table>

<h4>Key Agreement</h4>

Diffie-Hellman key agreement is supported using the "DH", "DHU" (Diffie-Hellman Unified", "ECDH", "ECCDH" (EC Cofactor DH), "ECKAEG" (BSI EC KAEG key agreement"), "ECMQV" and "ECCDHU" (EC Cofactor DH Unified) key agreement instances and their variations. Key exchange, which also uses the KeyAgreement API is supported by "NH" (the NewHope algorithm (BCPQC)). SM2 key exchange is currently supported in the lightweight API.

Support is provided for the standard SEC algorithm set for EC. Names appear
in the form of [Agreement]with[KDF PRF Digest][KDF type]. For example:

"ECCDHwithSHA256KDF" which represents EC cofactor DH using the X9.63 KDF with SHA256 as the PRF
"ECMQVwithSHA1CKDF"
which represents EC MQV using the concetantion KDF with SHA1 as the PRF

Note: with basic "DH" only the basic algorithm fits in with the JCE API, if
you're using long-term public keys you may want to look at the light-weight
API, there are also additional JCE support classes for UserKeyingMaterial and MQVParameters in the
org.bouncycastle.jcajce.spec package.

<h4>Key Encapsulation Mechanisms</h4>

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<thead>
<tr><th>Name</th><th>ParameterSpec Class</th><th>Notes</th></tr>
</thead>
<tbody>
<tr><td>CMCE</td><td>CMCEParameterSpec</td><td>Class McEliece (NIST Alternate Candidate)</td></tr>
<tr><td>Frodo</td><td>FrodoParameterSpec</td><td>FrodoKEM (NIST Alternate Candidate)</td></tr>
<tr><td>SABER</td><td>SABERParameterSpec</td><td>SABER (NIST Finalist)</td></tr>
</tbody>
</table>

If used for key wrapping via the Cipher class, you will also need to make use of the KEMParameterSpec class to specify a symmetric wrapping algorithm.

If access to the shared secret is required, KeyGenerator implementations can also be used in conjuction with the KEMGenerateSpec and the KEMExtractSpec which return the shared secret directly.

<h4>ECIES</h4>

An implementation of ECIES (stream mode) as described in IEEE P 1363a. This now based more formally on Victor Shoup's paper and should be compatible with the implementation in Crypto++ (version 6 onwards).

<h4>Digest</h4>

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Output (in bits)</th><th>Notes</th></tr>
<tr><td>Blake2b-160</td><td>160</td><td> </td></tr>
<tr><td>Blake2b-256</td><td>256</td><td> </td></tr>
<tr><td>Blake2b-384</td><td>384</td><td> </td></tr>
<tr><td>Blake2b-512</td><td>512</td><td> </td></tr>
<tr><td>Blake2s-128</td><td>128</td><td> </td></tr>
<tr><td>Blake2s-160</td><td>160</td><td> </td></tr>
<tr><td>Blake2s-224</td><td>224</td><td> </td></tr>
<tr><td>Blake2s-256</td><td>256</td><td> </td></tr>
<tr><td>Blake3-256</td><td>256</td><td> </td></tr>
<tr><td>DSTU7564-256</td><td>256</td><td> </td></tr>
<tr><td>DSTU7564-384</td><td>384</td><td> </td></tr>
<tr><td>DSTU7564-512</td><td>512</td><td> </td></tr>
<tr><td>GOST3411</td><td>256</td><td> </td></tr>
<tr><td>GOST3411-2012-256</td><td>256</td><td> </td></tr>
<tr><td>GOST3411-2012-512</td><td>512</td><td> </td></tr>
<tr><td>Haraka-256</td><td>256</td><td> </td></tr>
<tr><td>Haraka-512</td><td>256</td><td> </td></tr>
<tr><td>Keccak-224</td><td>224</td><td> </td></tr>
<tr><td>Keccak-288</td><td>288</td><td> </td></tr>
<tr><td>Keccak-256</td><td>256</td><td> </td></tr>
<tr><td>Keccak-384</td><td>384</td><td> </td></tr>
<tr><td>Keccak-512</td><td>512</td><td> </td></tr>
<tr><td>MD2</td><td>128</td><td> </td></tr>
<tr><td>MD4</td><td>128</td><td> </td></tr>
<tr><td>MD5</td><td>128</td><td> </td></tr>
<tr><td>RipeMD128</td><td>128</td><td>basic
RipeMD</td></tr>
<tr><td>RipeMD160</td><td>160</td><td>enhanced version of RipeMD</td></tr>
<tr><td>RipeMD256</td><td>256</td><td>expanded version of RipeMD128</td></tr>
<tr><td>RipeMD320</td><td>320</td><td>expanded version of RipeMD160</td></tr>
<tr><td>SHA1</td><td>160</td><td> </td></tr>
<tr><td>SHA-224</td><td>224</td><td>FIPS 180-2</td></tr>
<tr><td>SHA-256</td><td>256</td><td>FIPS 180-2</td></tr>
<tr><td>SHA-384</td><td>384</td><td>FIPS 180-2</td></tr>
<tr><td>SHA-512</td><td>512</td><td>FIPS 180-2</td></tr>
<tr><td>SHA3-224</td><td>224</td><td>FIPS 202</td></tr>
<tr><td>SHA3-256</td><td>256</td><td>FIPS 202</td></tr>
<tr><td>SHA3-384</td><td>384</td><td>FIPS 202</td></tr>
<tr><td>SHA3-512</td><td>512</td><td>FIPS 202</td></tr>
<tr><td>Skein-256-*</td><td>128, 160, 224, 256</td><td>e.g. Skein-256-160</td></tr>

<tr><td>Skein-512-*</td><td>128, 160, 224, 256, 384, 512</td><td>e.g. Skein-512-256</td></tr>
<tr><td>Skein-1024-*</td><td>384,
512, 1024</td><td>e.g. Skein-1024-1024</td></tr>
<tr><td>SM3</td><td>256</td><td> </td></tr>
<tr><td>Tiger</td><td>192</td><td> </td></tr>
<tr><td>Whirlpool</td><td>512</td><td> </td></tr>
</table>
</p>

<h4>MAC</h4>

<table cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Output (in bits)</th><th>Notes</th></tr>
<tr><td>Any MAC based on a block cipher, CBC (the default) and CFB modes.</td><td>half the cipher's block size (usually 32 bits)</td><td> </td></tr>
<tr><td>*-GMAC</td><td>32 to 128 bits</td><td>Usable with GCM mode ciphers, defined for AES, NIST SP 800-38D. e.g. AES-GMAC.</td></tr>
<tr><td>VMPC-MAC</td><td>128</td><td> </td></tr>
<tr><td>HMac-GOST3411</td><td>256</td><td> </td></tr>
<tr><td>HMac-GOST3411-2012-256</td><td>256</td><td> </td></tr>
<tr><td>HMac-GOST3411-2012-512</td><td>512</td><td> </td></tr>
<tr><td>HMac-KECCAK224</td><td>224</td><td> </td></tr>
<tr><td>HMac-KECCAK256</td><td>256</td><td> </td></tr>
<tr><td>HMac-KECCAK288</td><td>288</td><td> </td></tr>
<tr><td>HMac-KECCAK384</td><td>384</td><td> </td></tr>
<tr><td>HMac-KECCAK512</td><td>512</td><td> </td></tr>
<tr><td>HMac-MD2</td><td>128</td><td> </td></tr>
<tr><td>HMac-MD4</td><td>128</td><td> </td></tr>
<tr><td>HMac-MD5</td><td>128</td><td> </td></tr>
<tr><td>HMac-RipeMD128</td><td>128</td><td> </td></tr>
<tr><td>HMac-RipeMD160</td><td>160</td><td> </td></tr>
<tr><td>HMac-SHA1</td><td>160</td><td> </td></tr>
<tr><td>HMac-SHA224</td><td>224</td><td> </td></tr>
<tr><td>HMac-SHA256</td><td>256</td><td> </td></tr>
<tr><td>HMac-SHA384</td><td>384</td><td> </td></tr>
<tr><td>HMac-SHA512</td><td>512</td><td> </td></tr>
<tr><td>HMac-SHA3-224</td><td>224</td><td> </td></tr>
<tr><td>HMac-SHA3-256</td><td>256</td><td> </td></tr>
<tr><td>HMac-SHA3-384</td><td>384</td><td> </td></tr>
<tr><td>HMac-SHA3-512</td><td>512</td><td> </td></tr>
<tr><td>HMAC-Skein-256-*</td><td>128,
160, 224, 256</td><td>e.g. HMAC-Skein-256-160</td></tr>
<tr><td>HMAC-Skein-512-*</td><td>128, 160, 224, 256, 384, 512</td><td>e.g. HMAC-Skein-512-256</td></tr>
<tr><td>HMAC-Skein-1024-*</td><td>384, 512, 1024</td><td>e.g. HMAC-Skein-1024-1024</td></tr>
<tr><td>Siphash-2-4 (SipHash)</td><td>64</td><td></td></tr>
<tr><td>Siphash-4-8</td><td>64</td><td></td></tr>
<tr><td>Siphash128-2-4 (SipHash128)</td><td>128</td><td></td></tr>
<tr><td>Skein-MAC-256-*</td><td>128, 160, 224, 256</td><td>e.g. Skein-MAC-256-160</td></tr>

<tr><td>Skein-MAC-512-*</td><td>128, 160, 224, 256, 384, 512</td><td>e.g. Skein-MAC-512-256</td></tr>
<tr><td>Skein-MAC-1024-*</td><td>384, 512, 1024</td><td>e.g. Skein-MAC-1024-1024</td></tr>
<tr><td>HMac-Tiger</td><td>192</td><td> </td></tr>
<tr><td>Poly1305-*</td><td>128</td><td>Defined for recent 128 bit block ciphers, e.g. Poly1305-AES, Poly1305-Serpent</td></tr>
<tr><td>ZUC-128</td><td>32</td><td></td></tr>
<tr><td>ZUC-256-32</td><td>32</td><td></td></tr>
<tr><td>ZUC-256-64</td><td>64</td><td></td></tr>
<tr><td>ZUC-256-128</td><td>128</td><td></td></tr>
</table>

<p>Examples:

DESMac
DESMac/CFB8
DESedeMac
DESedeMac/CFB8
DESedeMac64
SKIPJACKMac
SKIPJACKMac/CFB8
IDEAMac
IDEAMac/CFB8
RC2Mac
RC2Mac/CFB8
RC5Mac
RC5Mac/CFB8
ISO9797ALG3Mac

<h4>Signature
Algorithms</h4>

<p>Schemes:

DSTU4145
Ed25519
Ed448
GOST3411withGOST3410 (GOST3411withGOST3410-94)
GOST3411withECGOST3410 (GOST3411withGOST3410-2001)
MD2withRSA
MD5withRSA
SHA1withRSA
RIPEMD128withRSA
RIPEMD160withRSA
RIPEMD160withDSA
RIPEMD160withECDSA
RIPEMD256withRSA

SHA1withDSA
SHA224withDSA
SHA256withDSA
SHA384withDSA
SHA512withDSA
SHA3-224withDSA
SHA3-256withDSA
SHA3-384withDSA
SHA3-512withDSA
SHA1withDDSA
SHA224withDDSA
SHA256withDDSA
SHA384withDDSA
SHA512withDDSA
SHA3-224withDDSA
SHA3-256withDDSA
SHA3-384withDDSA
SHA3-512withDDSA
NONEwithDSA
SHA1withDetECDSA
SHA224withECDDSA
SHA256withECDDSA
SHA384withECDDSA
SHA512withECDDSA
SHA1withECDSA
NONEwithECDSA
SHA224withECDSA
SHA256withECDSA
SHA384withECDSA
SHA512withECDSA
SHA3-224withECDSA
SHA3-256withECDSA
SHA3-384withECDSA
SHA3-512withECDSA
SHAKE128withECDSA
SHAKE256withECDSA
SHA1withPLAIN-ECDSA
SHA224withPLAIN-ECDSA
SHA256withPLAIN-ECDSA
SHA384withPLAIN-ECDSA
SHA512withPLAIN-ECDSA
SHA3-224withPLAIN-ECDSA
SHA3-256withPLAIN-ECDSA
SHA3-384withPLAIN-ECDSA
SHA3-512withPLAIN-ECDSA
SHA1withECNR
SHA224withECNR
SHA256withECNR

SHA384withECNR
SHA512withECNR
SHA224withRSA
SHA256withRSA
SHA384withRSA
SHA512withRSA
SHA512(224)withRSA
SHA512(256)withRSA
SHA3-224withRSA
SHA3-256withRSA
SHA3-384withRSA
SHA3-512withRSA
SHA1withRSAandMGF1
SHA256withRSAandMGF1
SHA384withRSAandMGF1
SHA512withRSAandMGF1
SHA512(224)withRSAandMGF1
SHA512(256)withRSAandMGF1
SHA1withRSA/ISO9796-2
RIPEMD160withRSA/ISO9796-2
SHA1withRSA/X9.31
SHA224withRSA/X9.31
SHA256withRSA/X9.31
SHA384withRSA/X9.31
SHA512withRSA/X9.31
SHA512(224)withRSA/X9.31
SHA512(256)withRSA/X9.31
RIPEMD128withRSA/X9.31
RIPEMD160withRSA/X9.31
WHIRLPOOLwithRSA/X9.31
SHA512withSPHINCS256
(BCPQC)
SHA3-512withSPHINCS256 (BCPQC)
SHA256withSM2
SM3withSM2
LMS
Dilithium
Falcon
Picnic
SPHINCS+
XMSS-SHA256
XMSS-SHA512
XMSS-SHAKE128
XMSS-SHAKE256
XMSSMT-SHA256
XMSSMT-SHA512
XMSSMT-SHAKE128
XMSSMT-SHAKE256

SHA256withXMSS-SHA256
SHA512withXMSS-SHA512
SHAKE128withXMSS-SHAKE128
SHAKE256withXMSS-SHAKE256
SHA256withXMSSMT-SHA256
SHA512withXMSSMT-SHA512
SHAKE128withXMSSMT-SHAKE128
SHAKE256withXMSSMT-SHAKE256

<h4>Password Hashing and PBE</h4>

<p>Schemes:

BCrypt
OpenBSDBcyrpt
SCrypt
PKCS5S1, any Digest, any symmetric Cipher, ASCII
PKCS5S2, any HMac, any symmetric Cipher, ASCII, UTF8
PKCS12, any Digest, any symmetric Cipher, Unicode

<p>
Defined in Bouncy Castle JCE Provider
<table
 cellpadding=5 cellspacing=0 border=1 width=80%>
<tr><th>Name</th><th>Key Generation Scheme</th><th>Key Length (in bits)</th><th>Char to Byte conversion</th></tr>
<tr><td>PBEWithMD2AndDES</td><td>PKCS5 Scheme 1</td><td>64</td><td>8 bit chars</td></tr>
<tr><td>PBEWithMD2AndRC2</td><td>PKCS5 Scheme 1</td><td>128</td><td>8 bit chars</td></tr>
<tr><td>PBEWithMD5AndDES</td><td>PKCS5 Scheme 1</td><td>64</td><td>8 bit chars</td></tr>
<tr><td>PBEWithMD5AndRC2</td><td>PKCS5 Scheme 1</td><td>128</td><td>8 bit chars</td></tr>
<tr><td>PBEWithSHA1AndDES</td><td>PKCS5 Scheme 1</td><td>64</td><td>8 bit chars</td></tr>
<tr><td>PBEWithSHA1AndRC2</td><td>PKCS5 Scheme 1</td><td>128</td><td>8 bit chars</td></tr>
<tr><td>PBKDF2WithHmacSHA1</td><td>PKCS5 Scheme 2</td><td>variable</td><td>UTF-8 chars</td></tr>
<tr><td>PBKDF2WithHmacSHA1AndUTF8</td><td>PKCS5 Scheme 2</td><td>variable</td><td>UTF-8 chars</td></tr>
<tr><td>PBKDF2WithHmacSHA1And8bit</td><td>PKCS5 Scheme 2</td><td>variable</td><td>8 bit chars</td></tr>
<tr><td>PBKDF2WithHmacSHA224</td><td>PKCS5 Scheme 2</td><td>variable</td><td>UTF-8 chars</td></tr>
<tr><td>PBKDF2WithHmacSHA256</td><td>PKCS5 Scheme 2</td><td>variable</td><td>UTF-8 chars</td></tr>
<tr><td>PBKDF2WithHmacSHA384</td><td>PKCS5 Scheme 2</td><td>variable</td><td>UTF-8 chars</td></tr>
<tr><td>PBKDF2WithHmacSHA512</td><td>PKCS5 Scheme 2</td><td>variable</td><td>UTF-8 chars</td></tr>
<tr><td>PBKDF2WithHmacSHA3-224</td><td>PKCS5 Scheme 2</td><td>variable</td><td>UTF-8

chars</td></tr>
<tr><td>PBKDF2WithHmacSHA3-256</td><td>PKCS5 Scheme 2</td><td>variable</td><td>UTF-8
chars</td></tr>
<tr><td>PBKDF2WithHmacSHA3-384</td><td>PKCS5 Scheme 2</td><td>variable</td><td>UTF-8
chars</td></tr>
<tr><td>PBKDF2WithHmacSHA3-512</td><td>PKCS5 Scheme 2</td><td>variable</td><td>UTF-8
chars</td></tr>
<tr><td>PBKDF2WithHmacGOST3411</td><td>PKCS5 Scheme 2</td><td>variable</td><td>UTF-8
chars</td></tr>
<tr><td>PBKDF2WithHmacSM3</td><td>PKCS5 Scheme 2</td><td>variable</td><td>UTF-8 chars</td></tr>
<tr><td>PBEWithSHAAnd2-KeyTripleDES-CBC</td><td>PKCS12</td><td>128</td><td>16
bit chars</td></tr>
<tr><td>PBEWithSHAAnd3-KeyTripleDES-CBC</td><td>PKCS12</td><td>192</td><td>16 bit chars</td></tr>
<tr><td>PBEWithSHAAnd128BitRC2-CBC</td><td>PKCS12</td><td>128</td><td>16 bit chars</td></tr>
<tr><td>PBEWithSHAAnd40BitRC2-CBC</td><td>PKCS12</td><td>40</td><td>16 bit chars</td></tr>
<tr><td>PBEWithSHAAnd128BitRC4</td><td>PKCS12</td><td>128</td><td>16 bit chars</td></tr>
<tr><td>PBEWithSHAAnd40BitRC4</td><td>PKCS12</td><td>40</td><td>16 bit chars</td></tr>
<tr><td>PBEWithSHAAndTwofish-CBC</td><td>PKCS12</td><td>256</td><td>16 bit chars</td></tr>
<tr><td>PBEWithSHAAndIDEA-CBC</td><td>PKCS12</td><td>128</td><td>16 bit chars</td></tr>
</table>

<h3>6.3 Certificates</h3>
<p>
The Bouncy Castle provider will read X.509 certficates (v2 or v3) as per the examples in
the java.security.cert.CertificateFactory class. They can be provided either
in the normal PEM encoded format, or as DER binaries.
<p>
The
CertificateFactory will also read X.509 CRLs (v2) from either PEM or DER encodings.
<p>
In addition to the classes in the org.bouncycastle.asn1.x509 package for certificate, CRLs, and OCSP, CRMF, and CMP message
generation a more JCE "friendly" class is provided in the package org.bouncycastle.cert. The JCE "friendly" classes found in the jcajce
subpackages support RSA, DSA, GOST, DTSU, and EC-DSA.
<p>
<h3>6.4 Keystore</h3>
<p>
The Bouncy Castle package has four implementation of a keystore.
<p>
The first "BKS" is a keystore that will work with the keytool in the same
fashion as the Sun "JKS" keystore. The keystore is resistent to tampering
but not inspection.
<p>
The second, Keystore.BouncyCastle, or Keystore.UBER will only work with the keytool
if the password is provided on the command line, as the entire keystore
is encrypted
with a PBE based on SHA1 and Twofish. PBEWithSHAAndTwofish-CBC.

This makes the entire keystore resistant to tampering and
inspection,
and forces verification.
The Sun JDK provided keytool will attempt to load a keystore even if no
password is given,
this is impossible for this version. (One might wonder about going to all
this trouble and then having the password on the command line! New keytool
anyone?).
<p>
In the first case, the keys are encrypted with 3-Key-TripleDES.
<p>
The third is a PKCS12 compatible keystore. PKCS12 provides a slightly
different situation from the regular key store, the keystore password is
currently the only password used for storing keys. Otherwise it supports
all the functionality required for it to be used with the keytool. In some
situations other libraries always expect to be dealing with Sun certificates,
if this is the case use PKCS12-DEF, and the certificates produced by the
key store will be made using the default provider. In the default case PKCS12 uses 3DES for key protection and 40 bit RC2 for protecting the certificates. It is also possible to use 3DES for both
by using PKCS12-3DES-3DES or PKCS12-DEF-3DES-3DES as the KeyStore type.
<p>
There is an example program that produces PKCS12 files suitable for
loading into browsers. It is in the package
org.bouncycastle.jce.examples.
<p>
The fourth is the BCFKS key store which is a FIPS compliant key store which is also designed for general key storage and based on ASN.1. This key store type is encrypted and supports the use of SCRYPT and the storage of some symmetric key types.
<p>
<h3>6.5 Additional support classes for Elliptic Curve.</h3>
<p>
There are no classes for supporting EC in the JDK prior to JDK 1.5. If you are using
an earlier JDK you can find classes for using EC in the following
packages:

org.bouncycastle.jce.spec
org.bouncycastle.jce.interfaces
org.bouncycastle.jce

<h3>7.0 BouncyCastle S/MIME</h3>

To be able to fully compile and utilise the BouncyCastle S/MIME
package (including the test classes) you need the jar files for
the following APIs.

Junit

- https://www.junit.org
JavaMail - <a
href="https://java.sun.com/products/javamail/index.html">https://java.sun.com/products/javamail/index.html
The Java Activation Framework - <a
href="https://java.sun.com/products/javabeans/glasgow/jaf.html">https://java.sun.com/products/javabeans/glasgow/jaf.html

<h3>7.1 Setting up BouncyCastle S/MIME in JavaMail</h3>

The BouncyCastle S/MIME handlers may be set in JavaMail two ways.

 STATICALLY

Add the following entries to the mailcap file:
<pre>
application/pkcs7-signature;; x-java-content-handler=org.bouncycastle.mail.smime.handlers.pkcs7_signature
application/pkcs7-mime;; x-java-content-handler=org.bouncycastle.mail.smime.handlers.pkcs7_mime
application/x-pkcs7-signature;; x-java-content-handler=org.bouncycastle.mail.smime.handlers.x_pkcs7_signature
application/x-pkcs7-mime;; x-java-content-handler=org.bouncycastle.mail.smime.handlers.x_pkcs7_mime
multipart/signed;; x-java-content-handler=org.bouncycastle.mail.smime.handlers.multipart_signed
</pre>

 DYNAMICALLY

The following code will add the BouncyCastle S/MIME handlers dynamically:

<pre>
import javax.activation.MailcapCommandMap;
import javax.activation.CommandMap;

public static void setDefaultMailcap()
{
    MailcapCommandMap _mailcap =
        (MailcapCommandMap)CommandMap.getDefaultCommandMap();

    _mailcap.addMailcap("application/pkcs7-signature;; x-java-content-
handler=org.bouncycastle.mail.smime.handlers.pkcs7_signature");
    _mailcap.addMailcap("application/pkcs7-mime;; x-java-content-
handler=org.bouncycastle.mail.smime.handlers.pkcs7_mime");
    _mailcap.addMailcap("application/x-pkcs7-signature;; x-java-content-
handler=org.bouncycastle.mail.smime.handlers.x_pkcs7_signature");
    _mailcap.addMailcap("application/x-pkcs7-mime;; x-java-content-
handler=org.bouncycastle.mail.smime.handlers.x_pkcs7_mime");
     _mailcap.addMailcap("multipart/signed;; x-java-content-
handler=org.bouncycastle.mail.smime.handlers.multipart_signed");

```
    CommandMap.setDefaultCommandMap(_mailcap);
  }
  </pre>
  </li>
  </ul>
</body>
</html>
```

Found in path(s):
* /bcpkix-jdk18on-177-tar-gz/bcpkix-jdk18on-177/docs/specifications.html
No license file was found, but licenses were detected in source scan.

```
<html>
<head>
<title>The Bouncy Castle Crypto Package</title>
</head>

<body bgcolor="#ffffff" text="#000000#">

<center>
<h1>The Bouncy Castle Crypto Package</h1>
<font size=1>
<pre>
</pre>
</font>
</center>
The Bouncy Castle Crypto package is a Java implementation of
cryptographic algorithms, it was developed by the Legion of the
Bouncy Castle, a registered Australian Charity, with a little help! The Legion, and the latest
goings on with this package, can be found at
<a href=https://www.bouncycastle.org>https://www.bouncycastle.org</a>.
<p>
The Legion also gratefully acknowledges the contributions made to this
package by others (see <a href=CONTRIBUTORS.html>here</a>
for the current list). If you would like to contribute to our efforts please feel free to get in touch with us or visit our
<a href="https://www.bouncycastle.org/donate">donations page</a>, sponsor some specific work, or purchase a
support contract through
 <a href="https://www.cryptoworkshop.com">Crypto Workshop</a>.
</p>
<p>
The package is organised so that it
contains a light-weight API suitable for use in any environment
(including the newly released J2ME) with the additional infrastructure
to conform the algorithms to the JCE framework.
</p>
<p>
Except where otherwise stated, this software is distributed under a license based on the MIT X Consortium license.
```

To view the license, see here. The OpenPGP library also includes a modified BZIP2 library which is licensed under the Apache Software License, Version 2.0.

The current release notes for this package are
here.

The current specifications for this package are
here.

The current JavaDoc for the Bouncy Castle APIs can be found
here.

Additional documentation on
 use of the classes can also be found in the docs directory.

<h2>Examples and Tests</h2>

 To view some examples, look at the test programs in the packages:

     org.bouncycastle.crypto.test
     org.bouncycastle.jce.provider.test
     org.bouncycastle.cms.test
     org.bouncycastle.mail.smime.test
     org.bouncycastle.openpgp.test

     org.bouncycastle.tsp.test

 There are also some specific example programs for dealing with Attribute Certificates, PKCS12, SMIME and OpenPGP. They can be found in:

   org.bouncycastle.jce.examples
   org.bouncycastle.mail.smime.examples
   org.bouncycastle.openpgp.examples

   org.bouncycastle.x509.examples

 Finally there are also code examples
 from Beginning Cryptography with Java which demonstrate

both the use of the JCE/JCA and also some of the Bouncy Castle APIs.

Note 1:The JCE classes are only distributed with the JDK 1.1, JDK 1.2, and JDK 1.3 JCE releases. The JDK 1.0, J2ME, and the JDK 1.1, JDK 1.2, JDK 1.3, JDK 1.4, and JDK 1.5 lightweight releases only include the Bouncy Castle lightweight cryptography API.
Note 2:The regression test for Diffie-Hellman is quite slow.

The clean room JCE, which will compile with everything from JDK 1.1 and up is in the jce/src/main/java directory.

The build scripts that come with the full distribution allow creation of the different releases by using the tree under src and test/src, excluding classes that are not appropriate and copying in the required compatibility classes from the directories containing
compatibility classes appropriate for the distribution.

If you want to try create a build for yourself, using your own environment, the best way to do it is to start with the build for the distribution you are interested in, make sure that builds, and then modify your build scripts to do the required exclusions and file copies for your setup, otherwise you are likely to get class not found exceptions. The final caveat to this is that as the j2me distribution includes some compatibility classes starting in the java package, you need to use an obfuscator to change the package names before attempting to import a midlet using the BC API.

<h2>Mailing Lists</h2>

For those who are interested, there are 2 mailing lists
for participation in this project. To subscribe use the
links below and include the word subscribe in the message body. (To unsubscribe, replace subscribe with unsubscribe in the message body)

announce-crypto-request@bouncycastle.org

This
mailing list is for new release announcements only, general subscribers cannot post to it.

dev-crypto-request@bouncycastle.org

This mailing list is for discussion of development of the package. This
includes bugs, comments, requests for enhancements, questions about
use or operation.

NOTE:You need to be subscribed to send mail to the above
mailing list.

If you want to provide feedback, directly to the members of The Legion then please use feedback-crypto@bouncycastle.org, if you want to help this project survive please consider donating or getting a support contract.

Enjoy!
</body>
</html>

Found in path(s):
* /bcpkix-jdk18on-177-tar-gz/bcpkix-jdk18on-177/index.html

1.106 fast-infoset 1.2.15

1.106.1 Available under license :

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.111 jetty-continuation 9.4.48.v20220622

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

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

Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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org.ow2.asm:asm-commons
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 org.apache.tomcat:tomcat-jasper
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 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

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org.eclipse.jetty.toolchain:jetty-schemas

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Todd C. Miller modified the MD5 code to do MD4 based on RFC 1186.

Files:
include/md5.h
src/md5.c
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src/sha1.c
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1.113 libproc2-0 2:4.0.4-4ubuntu3.2

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1.114 slf4j 1.7.36

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* /nanojson-1-9-sources-3-jar/com/grack/nanojson/JsonStringWriter.java
* /nanojson-1-9-sources-3-jar/com/grack/nanojson/JsonTokener.java
* /nanojson-1-9-sources-3-jar/com/grack/nanojson/JsonParserException.java
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1.117 log4j-to-slf4j 2.17.1

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1.119 popt 1.19+dfsg-1build1

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1.121 cyrus-sasl 2.1.28+dfsg1-5ubuntu3.1

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1.122 iputils 0240117

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.127 go-str2duration 2.1.0

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1.128 gzip 1.12-1ubuntu3.1

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/* Extract the last component (base name) of a file name.

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  along with this program. If not, see <https://www.gnu.org/licenses/>. */

#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT

```
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
```

```
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
```

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Version 3, 29 June 2007

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1.131 jakarta-ws-rs-api 2.1.6

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1.136 glob 0.2.3

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1.137 session-migration 0.3.9build1

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1.138 libgnutls30t64 3.8.3-1.1ubuntu3.4

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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
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which the executable runs, unless that component itself accompanies
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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

```
#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
 If FILENAME has some trailing slash(es), they are considered to be
 part of the last component.
 If FILENAME has no relative file name components because it is a file
 system root, return the empty string.
 Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
 The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
 function name because
   * Various platforms have different functions in their libc.
     In particular, the glibc basename(), defined in <string.h>, does
     not consider trailing slashes to be part of the component:

 FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
   * The 'basename' command eliminates trailing slashes and for a root
     produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
```

```
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
```

```
======================================================================
Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
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version 0.1
##
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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

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rather than copying library functions into the executable, and (2) will operate
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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.

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

A "Standard Interface" means an interface that either is an official

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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.

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```
/*
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*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
```

```
int16_t  d_type;   /* drive type */
int16_t  d_subtype;  /* controller/d_type specific */
char  d_typename[16];  /* type name, e.g. "eagle" */
char  d_packname[16];  /* pack identifier */

  /* disk geometry: */
uint32_t d_secsize;  /*
# of bytes per sector */
uint32_t d_nsectors;  /* # of data sectors per track */
uint32_t d_ntracks;  /* # of tracks per cylinder */
uint32_t d_ncylinders;  /* # of data cylinders per unit */
uint32_t d_secpercyl;  /* # of data sectors per cylinder */
uint32_t d_secperunit;  /* # of data sectors per unit */

/*
 * Spares (bad sector replacements) below
 * are not counted in d_nsectors or d_secpercyl.
 * Spare sectors are assumed to be physical sectors
 * which occupy space at the end of each track and/or cylinder.
 */
uint16_t d_sparespertrack; /* # of spare sectors per track */
uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders;  /* # of alt. cylinders per unit */

  /* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
```

```
 uint16_t d_interleave;  /* hardware sector interleave */
 uint16_t d_trackskew;  /* sector 0 skew, per track */
 uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
 uint32_t d_headswitch;  /* head switch time, usec */
 uint32_t d_trkseek;  /*
 track-to-track seek, usec */
 uint32_t d_flags;  /* generic flags */
 uint32_t d_drivedata[5];  /* drive-type specific information */
 uint32_t d_spare[5];  /* reserved for future use */
 uint32_t d_magic2;  /* the magic number (again) */
 uint16_t d_checksum;  /* xor of data incl. partitions */

   /* filesystem and partition information: */
 uint16_t d_npartitions;         /* number of partitions in following */
 uint32_t d_bbsize;          /* size of boot area at sn0, bytes */
 uint32_t d_sbsize;          /* max size of fs superblock, bytes */

 struct bsd_partition  {  /* the partition table */
  uint32_t p_size;         /* number of sectors in partition */
  uint32_t p_offset;       /* starting sector */
  uint32_t p_fsize;        /* filesystem basic fragment size */
  uint8_t  p_fstype; /* filesystem type, see below */
  uint8_t  p_frag;  /* filesystem fragments per block */
  uint16_t p_cpg;         /* filesystem cylinders per group */
 } __attribute__((packed))
 d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values: */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
```

```
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7
  3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /*
 removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
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Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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

Apache

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

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following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

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

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.144 wayland 1.22.0-2.1build1

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1.147 log4j-slf4j2-impl 2.24.1

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1.148 libpamg 1.5.3-5ubuntu5.5

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Upstream-Name: Linux-PAM
Comment: This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org.
Source: https://github.com/linux-pam/linux-pam/releases

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c
===
--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c
@@ -348,6 +348,65 @@
return PAM_SUCCESS;
}

```
+int display_legal(pam_handle_t *pamh)
+{
+   int retval = PAM_IGNORE, rc;
+   char *user = NULL;
+   char *dir = NULL;
+   char *flag = NULL;
+   struct passwd *pwd = NULL;
+   struct stat s;
+   int f;
+   /* Get the user name to determine if we need to print the disclaimer */
+   rc = pam_get_item(pamh, PAM_USER, &user);
+   if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+   {
+      PAM_MODUTIL_DEF_PRIVS(privs);
+
+
     /* Get the password entry */
+      pwd = pam_modutil_getpwnam (pamh, user);
+      if (pwd != NULL)
+      {
+         if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+            pam_syslog(pamh, LOG_ERR,
+                  "Unable to change UID to %d temporarily\n",
+                  pwd->pw_uid);
+            retval = PAM_SESSION_ERR;
+            goto finished;
+         }
+
+         if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+            goto finished;
+         if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+            goto finished;
+
+         if (stat(flag, &s) != 0)
+         {
+            int fd = open("/etc/legal", O_RDONLY, 0);
+            if (fd >= 0) {
+               try_to_display_fd(pamh, fd);
+               close(fd);
+            }
+            mkdir(dir, 0700);
+            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+
              S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+            if (f>=0) close(f);
+         }
+
```

```
+finished:
+           if (pam_modutil_regain_priv(pamh, &privs)) {
+               pam_syslog(pamh, LOG_ERR,
+                          "Unable to change UID back to %d\n", privs.old_uid);
+               retval = PAM_SESSION_ERR;
+           }
+
+           _pam_drop(flag);
+           _pam_drop(dir);
+       }
+   }
+   return retval;
+}
+
int pam_sm_open_session(pam_handle_t *pamh, int flags,
  int argc, const char **argv)
{
@@ -446,6 +505,9 @@
                        motd_dir_path_split, num_motd_dir_paths,
                        report_missing);

+   /* Display the legal disclaimer only if necessary */
+   retval = display_legal(pamh);
+
 out:
   _pam_drop(motd_path_copy);
   _pam_drop(motd_path_split);
```

1.149 miekg-dns 1.1.68

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Manifest-Version: 1.0
Created-By: mergejars
Automatic-Module-Name: com.google.protobuf
Bnd-LastModified: 1726689439980
Bundle-Description: Core Protocol Buffers library. Protocol Buffers are
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Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Core]
Bundle-SymbolicName: com.google.protobuf
Bundle-Version: 3.25.5
Export-Package: com.google.protobuf;version="3.25.5",com.google.protobuf
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1.151 sysv-init 3.08-6ubuntu3

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1.152 speex 1.2.1-2ubuntu2.24.04.1

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1.153 webapp-runner-redis 9.0.86.0

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1.154 jctools-core 3.1.0

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<inceptionYear>2013</inceptionYear>

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 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
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  <url>https://github.com/kay</url>
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  <java.test.version>1.8</java.test.version>

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  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
 </properties>
</project>
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Found
 in path(s):
* /jctools-core-3-1-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
No license file was found, but licenses were detected in source scan.

```
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* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Ordering.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
*
 /jctools-core-3-1-0-sources-jar/org/jctools/util/UnsafeJvmInfo.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java

* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SpscLinkedQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/spec/Preference.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MessagePassingQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/SupportsIterator.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpscGrowableArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java
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 /jctools-core-3-1-0-sources-jar/org/jctools/queues/MpmcArrayQueue.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/atomic/SpscAtomicArrayQueue.java
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* /jctools-core-3-1-0-sources-jar/org/jctools/queues/package-info.java
* /jctools-core-3-1-0-sources-jar/org/jctools/queues/BaseSpscLinkedArrayQueue.java

1.155 jetty 9.4.48.v20220622

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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

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

Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.156 thrift 0.13.0

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1.157 commons-fileupload 2.15.1

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1.158 python-pkg-resources 68.1.2-2ubuntu1.2

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1.159 javassist 3.21.0-GA

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Found in path(s):
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/CodeGen.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformAccessArrayField.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/CompileError.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Symbol.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Stmnt.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/CodeIterator.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/URLClassPath.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/CtClass.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/scopedpool/SoftValueHashMap.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/ClassPool.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/ClassPoolTail.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/MethodInfo.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/CtNewNestedClass.java

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* /javassist-3-21-0-ga-sources-5-jar/javassist/runtime/DotClass.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/LocalVariableAttribute.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/expr/FieldAccess.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Expr.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/CannotCreateException.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/AnnotationsAttribute.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Member.java
*

/javassist-3-21-0-ga-sources-5-jar/javassist/CtNewWrappedConstructor.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/framedump.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/IntConst.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/SerialVersionUID.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/CtNewClass.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/Reflection.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/NoSuchClassError.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/Callback.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/TypeChecker.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/CannotReflectException.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/expr/MethodCall.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/AttributeInfo.java
*
/javassist-3-21-0-ga-sources-5-jar/javassist/expr/ConstructorCall.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Variable.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/AccessorMaker.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/Modifier.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Declarator.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/FactoryHelper.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/web/Webserver.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/stackmap/BasicBlock.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/StackMapTable.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ClassFile.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/CannotCompileException.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/SyntheticAttribute.java
*
/javassist-3-21-0-ga-sources-5-jar/javassist/compiler/JvstCodeGen.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/AssignExpr.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/CtNewMethod.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/Compiler.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/ClassClassPath.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ByteStream.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/ASTList.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/MethodHandler.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/FieldInfo.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/NewExpr.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/convert/Transformer.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/stackmap/TypeTag.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/InstructionPrinter.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolRepository.java
*
/javassist-3-21-0-ga-sources-5-jar/javassist/CtBehavior.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/expr/Cast.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/Subroutine.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ConstPool.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/stackmap/TypedBlock.java

* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ProceedHandler.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/Descriptor.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/InstanceOfExpr.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/expr/Handler.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformCall.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/rmi/ObjectImporter.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/NoFieldException.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/CallExpr.java
*
 /javassist-3-21-0-ga-sources-5-jar/javassist/CtMember.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Visitor.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/MultiType.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/runtime/Desc.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/MethodDecl.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ConstantAttribute.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/ProxyFactory.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/CtNewWrappedMethod.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/expr/NewExpr.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/ClassPath.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/NotFoundException.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformReadField.java
*
 /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/Javac.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/Metaobject.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/IntQueue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/Mnemonic.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/SecurityActions.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/rmi/Sample.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ByteArray.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/Type.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Pair.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/KeywordTable.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/stackmap/MapMaker.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ClassFileWriter.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/expr/ExprEditor.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/rmi/RemoteException.java
*
 /javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformBefore.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/CtClassType.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/expr/Expr.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/ClassMetaobject.java
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*/

Found in path(s):
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/FloatMemberValue.java
*
 /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/Annotation.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ArrayMemberValue.java
*
 /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ShortMemberValue.java

1.160 libnotify 0.8.3-1build2

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1.169 memcached-session-manager-tc9 2.3.2

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* /memcached-session-manager-tc9-2-3-2-sources-jar/de/javakaffee/web/msm/MemcachedBackupSessionManager.java

1.170 truststore 0.8.0

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1.171 genproto-googleapis-api 0.0.0-20250603155806-513f23925822

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1.172 libaudit 1:3.1.2-2.1build1.1

1.172.1 Available under license :

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zmta01.collab.prod.int.phx2.redhat.com) (10.5.5.31) by
mail06.corp.redhat.com with LMTP; Wed, 19 May 2010 02:43:28 -0400 (EDT)
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 with ESMTP id ieqQbA5XErco; Wed, 19 May 2010 02:43:28 -0400 (EDT)
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 Wed, 19 May 2010 02:43:28 -0400
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 by mx1.redhat.com (8.13.8/8.13.8) with ESMTP id o4J6hH34025980;
 Wed, 19 May 2010 02:43:17 -0400
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 by gs8.inmotionhosting.com with esmtpsa (TLSv1:AES256-SHA:256)
 (Exim 4.69)
 (envelope-from <bill@thedirks.org>)
 id 1OEd8K-0004wo-An; Tue, 18 May 2010 23:52:00 -0700
Message-ID: <4BF38878.9030208@thedirks.org>
Date: Tue, 18 May 2010 23:43:04 -0700
From: Bill Dirks <bill@thedirks.org>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 6.1; en-US; rv:1.9.1.9) Gecko/20100317 Thunderbird/3.0.4
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
CC: Huzaifa Sidhpurwala <huzaifas@redhat.com>
Subject: Re: License question about v4l1-compat.c
References: <4BF2445B.2080203@redhat.com>
In-Reply-To: <4BF2445B.2080203@redhat.com>
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Content-Transfer-Encoding: 7bit

X-AntiAbuse: This header was added to track abuse, please include it with any abuse report
X-AntiAbuse: Primary Hostname - gs8.inmotionhosting.com
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X-AntiAbuse: Sender Address Domain - thedirks.org
X-Source:
X-Source-Args:
X-Source-Dir:
X-RedHat-Spam-Score: 0 ()
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.17
X-Scanned-By: MIMEDefang 2.67 on 10.5.110.6

Hi, Hans. Nice to 'meet' you.

Yes, that's fine. Take what you need from my code and use it in your
LGPL licensed library. I'm all in favor of removing v4l1 from the kernel.

Bill.

On 5/18/2010 12:40 AM, Hans de Goede wrote:
> Hi Bill,
>
> AFAIK you've been out of the v4l loop, so I assume you
> don't know me, this let me start with a shot self introduction:
>
> I'm a Linux enthusiast / developer. Amongst other things I've
> ported over many webcam drivers from v4l1
to v4l2 and I'm the
> author and maintainer of libv4l.
>
> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but
> most of them were out of tree, including the gspca driver
> which is a usb webcam driver framework supporting a lot
> of different chipsets.
>
> One problem with getting these merged is that a lot of webcam
> chipsets produce proprietary (compressed) video formats, which
> apps don't understand. The out of tree drivers all "fixed" this
> by doing decompression and video format conversion inside the
> kernel.
>
> This was not acceptable thus it was time to write a library
> to sit between v4l2 apps and devices which could do format
> conversion if necessary. This resulted in libv4l2 and

> libv4lconvert being written, with libv4l2 being the glue sitting
> in between and libv4lconvert
 doing the actual conversion.
>
> But this did not help v4l1 apps, so I also wrote libv4l1 for those.
>
> Both libv4l1 and libv4l2 work by emulating the raw device API, all
> one needs to do is write v4lx_open instead of plain open when opening
> the device and them use v4lx_ioctl, etc. on the resulting fd instead
> of their plain versions. This serves 2 purposes:
> 1) It makes porting of apps the the library trivial
> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such
>   as skype).
>
> And now (finally) my question to you, lately we (the v4l devs) have
> been working on removing the last bits of v4l1 from the kernel.
> We would like to also remove the v4l1 ioctl compatibility (*), but
> currently libv4l1 depends on the v4l1 ioctl compatibility for some
> ioctls.
>
> Fixing this comes down to looking at what the kernel compat code
> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
>
 then the GPL. Thus my question is would it be ok to use your v4l1 compat
> code under the LGPL inside libv4l1 ?
>
> Thanks & Regards,
>
> Hans
>
>
> (*) As in practice v4l1 apps need libv4l1 anyways both for format
> conversion and because some v4l2 drivers don't implement VIDIOCGMBUF
> including rather important ones like the UVC driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel
>

##

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zmta02.collab.prod.int.phx2.redhat.com) (10.5.5.32) by
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([127.0.0.1])
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for <hdegoede@mail.corp.redhat.com>; Wed, 19 May 2010 04:25:49 -0400 (EDT)
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by int-mx08.intmail.prod.int.phx2.redhat.com (8.13.8/8.13.8) with ESMTP id o4J8PjFh018889
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for <hdegoede@redhat.com>; Wed, 19 May 2010 04:25:47 -0400
Message-ID: <4BF3A088.4050101@redhat.com>
Date: Wed, 19 May 2010 10:25:44 +0200
From: Gerd Hoffmann <kraxel@redhat.com>
User-Agent: Mozilla/5.0 (X11; U; Linux x86_64; en-US; rv:1.9.1.9) Gecko/20100430 Fedora/3.0.4-2.fc12
Thunderbird/3.0.4
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
Subject: Re: Re-licensing v4l1-compat.c code which you wrote
References: <4BF3A064.7080602@redhat.com>
In-Reply-To: <4BF3A064.7080602@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.21

Hi,

> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

Fine with me.

cheers,
Gerd

##

Return-Path: hverkuil@xs4all.nl
Received: from zmta02.collab.prod.int.phx2.redhat.com (LHLO
zmta02.collab.prod.int.phx2.redhat.com) (10.5.5.32) by
mail06.corp.redhat.com with LMTP; Wed, 19 May 2010 04:28:02 -0400 (EDT)
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by localhost (zmta02.collab.prod.int.phx2.redhat.com [127.0.0.1]) (amavisd-new, port 10024)
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by mx1.redhat.com (8.13.8/8.13.8) with ESMTP id o4J8Rp9r025653;
Wed, 19 May 2010 04:27:51 -0400
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Wed, 19 May 2010 10:27:45
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(envelope-from hverkuil@xs4all.nl)
Received: from 62.70.2.252
(SquirrelMail authenticated user hverkuil)
by webmail.xs4all.nl with HTTP;
Wed, 19 May 2010 10:27:50 +0200
Message-ID: <3968c0dc456676eb0b1652936d795482.squirrel@webmail.xs4all.nl>
In-Reply-To: <4BF3A064.7080602@redhat.com>
References: <4BF3A064.7080602@redhat.com>
Date: Wed, 19 May 2010 10:27:50 +0200
Subject: Re: Re-licensing v4l1-compat.c code which you wrote
From: "Hans Verkuil" <hverkuil@xs4all.nl>
To: "Hans de Goede" <hdegoede@redhat.com>
Cc: "Gerd Hoffmann" <kraxel@redhat.com>,
"Mauro Carvalho Chehab" <mchehab@redhat.com>,
"Trent Piepho" <xyzzy@speakeasy.org>,
"Huzaifa Sidhpurwala" <huzaifas@redhat.com>
User-Agent: SquirrelMail/1.4.18
MIME-Version: 1.0
Content-Type: text/plain;charset=iso-8859-1
Content-Transfer-Encoding: 8bit
X-Virus-Scanned: by XS4ALL Virus Scanner
X-RedHat-Spam-Score: -0.02 (RCVD_IN_DNSWL_NONE,T_RP_MATCHES_RCVD)
X-Scanned-By: MIMEDefang
2.67 on 10.5.11.16
X-Scanned-By: MIMEDefang 2.67 on 10.5.110.14

> Hi All,
>
> I'm writing you all because you've contributed patches
> to the kernels v4l1 ioctl compat code living in v4l1-compat.c
>

> Most of you already know me, and know that I'm working on
> making libv4l1 become independent of the kernel v4l1 ioctl
> compat code, so that it can be removed from the kernel.
>
> For those who don't know me or the v4l1 cleanup effort,
> read below for the long story.
>
> Making libv4l1 independent of the v4l1-compat.c code in the
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> does and then implementing that in libv4l1. This will likely involve
> some direct copying and libv4l1 is licensed under the LGPL rather
> then the GPL. I already have permission from Bill Dirks who wrote
> the initial v4l1-compat code to do this.
>
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

Permission granted.

Looking
 forward to seeing this in libv4l1 so we can kill this legacy code
in the kernel.

Regards,

Hans Verkuil

>
> Thanks & Regards,
>
> Hans
>
>
> The long story:
>
> I'm a Linux enthusiast / developer. Amongst other things I've
> ported over many webcam drivers from v4l1 to v4l2 and I'm the
> author and maintainer of libv4l.
>
> Let me also quickly introduce libv4l about 3 years ago I had
> too much free time and was looking for a hobby project and I
> decided that improving webcam support under Linux would be
> a nice project. At that time there were many webcam driver but
> most of them were out of tree, including the gspca driver
> which is a usb webcam driver framework supporting a lot
> of different chipsets.
>
> One problem with getting these merged is that a lot of webcam

> chipsets produce proprietary (compressed) video formats, which
> apps don't understand. The out of tree drivers all "fixed" this
> by doing decompression and video format conversion inside the
> kernel.
>
>
 This was not acceptable thus it was time to write a library
> to sit between v4l2 apps and devices which could do format
> conversion if necessary. This resulted in libv4l2 and
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> of their plain versions. This serves 2 purposes:
> 1) It makes porting of apps the the library trivial
> 2) It allows for an LD_PRELOAD shim (used for proprietary apps such
>   as skype).
>
> Lately we (the v4l devs) have been working on removing the last bits
> of v4l1 from the kernel. We would like to also remove the v4l1 ioctl
> compatibility (*), but currently libv4l1 depends on the v4l1 ioctl
>
 compatibility for some ioctls, we are working on fixing this
> which involves re-using code from v4l1-compat.c, hence the
> re-licensing permission question.
>
> (*) As in practice v4l1 apps need libv4l1 anyways both for format
> conversion and because some v4l2 drivers don't implement VIDIOCGMBUF
> including rather important ones like the UV driver, thus we've
> come to the conclusion that we might just as well drop the
> compatibility from the kernel.
>

--
Hans Verkuil - video4linux developer - sponsored by TANDBERG, part of Cisco

##

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Received: from int-mx08.intmail.prod.int.phx2.redhat.com (int-mx08.intmail.prod.int.phx2.redhat.com [10.5.11.21])
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Message-ID: <4BF3F4B9.3060803@redhat.com>
Date: Wed, 19 May 2010 11:24:57 -0300
From: Mauro Carvalho Chehab <mchehab@kernel.org>
User-Agent: Thunderbird 2.0.0.22 (X11/20090609)
MIME-Version: 1.0
To: Hans de Goede <hdegoede@redhat.com>
CC: Gerd Hoffmann
 <kraxel@redhat.com>, Hans Verkuil <hverkuil@xs4all.nl>,
	Trent Piepho <xyzzy@speakeasy.org>,
	Huzaifa Sidhpurwala <huzaifas@redhat.com>
Subject: Re: Re-licensing v4l1-compat.c code which you wrote
References: <4BF3A064.7080602@redhat.com>
In-Reply-To: <4BF3A064.7080602@redhat.com>
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
X-Scanned-By: MIMEDefang 2.67 on 10.5.11.21

Hans de Goede wrote:
> Hi All,
>
> I'm writing you all because you've contributed patches
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> Most of you already know me, and know that I'm working on
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> compat code, so that it can be removed from the kernel.
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> For those who don't know me or the v4l1 cleanup effort,
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> Making libv4l1 independent of the v4l1-compat.c code in the
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> some direct copying and libv4l1 is licensed under the LGPL rather
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> the initial v4l1-compat code to do this.
>
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1 ?

LGPL for v4l1-compat code is fine for me.

Cheers,
Mauro

##

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1.175 deathowl-go-metrics-prometheus 0.0.0-20221009205350-f2a1482ba35b

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1.176 bouncy-castle 1.78.1

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/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
*/

Found in path(s):
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/**
* SPHINCS-256 signer.
*
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
*
*
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of

```
* section 1 in https://eprint.iacr.org/2014/795.pdf
* </p>
*/
```

Found in path(s):
* /bcprov-jdk18on-1-78-1-sources-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
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```
/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/
```

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* /bcprov-jdk18on-1-78-1-sources-jar/org/bouncycastle/crypto/macs/Poly1305.java
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```
/**
   * Magic value for proprietary OpenSSH private key.
   **/
```

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* /bcprov-jdk18on-1-78-1-sources-jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
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```
/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old
NTRU, see
* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
* <p>
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC
competition,
* released under CC0-1.0 license.
* </p>
*
* <p><a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-
3/submissions/NTRU-Round3.zip">NIST submission files</a></p>
* <p><a href="https://github.com/jschanck/ntru/blob/master/LICENSE">License of reference
implementation</a></p>
```

*
* @see NIST round 3 PQC submissions page
* @see NTRU website
* @see NTRU specification
*/

Found in path(s):
* /bcprov-jdk18on-1-78-1-sources-jar/org/bouncycastle/pqc/crypto/ntru/package-info.java
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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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* /bcprov-jdk18on-1-78-1-sources-jar/org/bouncycastle/asn1/x9/DomainParameters.java
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/**
* An implementation of RFC 7253 on The OCB
* Authenticated-Encryption Algorithm. For those still concerned about the original patents
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*
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*/

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* /bcprov-jdk18on-1-78-1-sources-jar/org/bouncycastle/crypto/modes/OCBBlockCipher.java

1.177 iconv 2.39

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directing the user to the copy of
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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
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Verify that the user has already received a copy of these
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@page
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/kryo-5-6-2-sources-jar/com/esotericsoftware/kryo/util/HashMapReferenceResolver.java
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* /kryo-5-6-2-sources-jar/com/esotericsoftware/kryo/serializers/TaggedFieldSerializer.java
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1.184 libogg 1.3.5-3build1

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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/stream/package-info.java
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 /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/SslHandler.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/logging/package-info.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/address/package-info.java
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*
 /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/flush/package-info.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
*
 /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
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*
 /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/SslProvider.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java
*
 /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java

* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
*
 /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/SslUtils.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java
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 /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/SslContext.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/PemReader.java
*
 /netty-handler-4-1-107-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/pcap/IPPacket.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
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 /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslSessionCache.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/SslContextOption.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/SslProtocols.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/BouncyCastle.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /netty-handler-4-1-107-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java

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1.188 genproto-googleapis-rpc 0.0.0-20250603155806-513f23925822

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1.192 glib 2.80.0

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* /netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsCodecUtil.java
*
/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsResponseDecoder.java
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* /netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsResponse.java
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/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryEncoder.java
* /netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRawRecord.java
* /netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQueryDecoder.java
* /netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsQuestion.java
* /netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordDecoder.java
* /netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsMessageUtil.java
* /netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
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* /netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsQuery.java
* /netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsRecord.java
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/netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DefaultDnsRecordEncoder.java
* /netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/package-info.java
* /netty-codec-dns-4-1-107-final-sources-jar/io/netty/handler/codec/dns/DnsOpCode.java

1.194 more-itertools 9.1.0

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1.200 cron 3.0pl1-184ubuntu2

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*
 /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/misc.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/entry.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/env.c
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* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/do_command.c
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* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/pathnames.h

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*
* @(#)bitstring.h 5.2
 (Berkeley) 4/4/90
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$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable
 stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by
 Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
 to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
 you should check this out.

say:
 make all

su and say:
 make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

 crontab -u uucp -r /usr/lib/uucp/crontab.src
 crontab -u news -r /usr/lib/news/crontab.src
 crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the
command is issued; changing the source files later will have
 no effect until
they are reinstalled with another `crontab -r' command. (2) The crontab
command will affect the crontab of the person using the command unless `-u
USER' is given; `-u' only works for root.  When using most `su' commands
under most BSD's, `crontab' will still think of you as yourself even though
you may think of yourself as root -- so use `-u' liberally.  (3) the `-r'

option stands for `replace'; check the man page for crontab(1) for other
possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no '&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to
 be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

 Read all the FEATURES, INSTALL, and CONVERSION files
 Edit config.h
 Edit Makefile
  (both of these files have instructions inside; note that
   some things in config.h are definable in Makefile and are
   therefore surrounded by #ifndef...#endif)
 'make'
 'su' and 'make install'
  (you may have to install the man pages by hand)
 kill your existing cron process
  (actually you can run your existing cron if you want, but why?)
 build new crontabs using /usr/lib/{crontab,crontab.local}
  (either put them all in "root"'s crontab, or divide it up
   and rip out all the 'su' commands, collapse the lengthy
   lists into
 ranges with steps -- basically, this step is
   as much work as you want to make it)
 start up the new cron
  (must be done as root)
 watch it. test it with 'crontab -r' and watch the daemon track your
  changes.
 if you like it, change your /etc/{rc,rc.local} to use it instead of
  the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

Found in path(s):
* /cron-3-0pl1-orig-1-tar-gz/cron-3.0pl1.orig/README

1.201 bcpkix-jdk18on 1.78.1

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

Found in path(s):
* /bcpkix-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.202 go-spiffe 2.6.0

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1.203 libsemanage2 3.5-1build5

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1.205 jackson-xc 2.14.1

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1.211 jakarta-ws-rs-api 2.1.5

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Source Code

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* https://github.com/eclipse-ee4j/jaxrs-api

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1.212 asm 5.1

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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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/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
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   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
```

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*/
/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

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

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* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.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):
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```
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* /asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
*
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* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/package.html
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/package.html
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/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *            the
 method visitor to which this adapter delegates calls.
   * @param access
   *            the method's access flags (see {@link Opcodes}).
   * @param name
   *            the method's name.
   * @param desc
   *            the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */

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* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/GeneratorAdapter.java
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/**
   * Constructs a new {@link Textifier}. Subclasses must not use this
   * constructor. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
   * @throws IllegalStateException
   *   If a subclass calls this constructor.
    */

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* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/shrink-resize.properties
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/shrink-signatures.properties
*
/asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/shrink-frames.properties
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* /asm-5-1-sources-2-jar/org/objectweb/asm/MethodVisitor.java
*

/asm-5-1-sources-2-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Opcodes.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/ClassReader.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/JarOptimizer.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Item.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/InsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/ConstantPool.java
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* /asm-5-1-sources-2-jar/org/objectweb/asm/signature/SignatureWriter.java
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* /asm-5-1-sources-2-jar/org/objectweb/asm/Label.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/TraceMethodVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/IntInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/FieldConstantsCollector.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/NameMapping.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
*
/asm-5-1-sources-2-jar/org/objectweb/asm/ClassVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/Printer.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/Remapper.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/MethodNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Type.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/ClassWriter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/Shrinker.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/MethodRemapper.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Context.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/LabelNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/LineNumberNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/InnerClassNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/FrameNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
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* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/InsnList.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Subroutine.java
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* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/TypeInsnNode.java
*
/asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/Constant.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
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* /asm-5-1-sources-2-jar/org/objectweb/asm/Handler.java
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* /asm-5-1-sources-2-jar/org/objectweb/asm/FieldVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Attribute.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/FieldWriter.java
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/asm-5-1-sources-2-jar/org/objectweb/asm/tree/FieldNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Frame.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/JumpInsnNode.java
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* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/Value.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Edge.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/Method.java
*
/asm-5-1-sources-2-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java

* /asm-5-1-sources-2-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/FieldInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/VarInsnNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/tree/ParameterNode.java
* /asm-5-1-sources-2-jar/org/objectweb/asm/Handle.java
*
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*/

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

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

```
*/

package org.apache.xalan.xsltc.compiler;

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

import org.apache.xml.dtm.DTM;
import org.apache.xalan.xsltc.DOM;
import org.apache.xml.dtm.Axis;
import org.apache.xalan.xsltc.runtime.Operators;
import org.apache.xalan.xsltc.compiler.util.ErrorMsg;

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

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

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

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

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

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

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

  public int getLineNumber() {
     return _lineNumber;
  }

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

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

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

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

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


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

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

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


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

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

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

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

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

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

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

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

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

   return result;
}
 }

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

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

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

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

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

```
    }
  }

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

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

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

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

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

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

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

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

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

```
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non
 terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

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

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

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

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

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
```

```
        {: RESULT = pattern; :}

        | EXPRESSION Expr:expr
        {: RESULT = expr; :};

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

Pattern ::= LocationPathPattern:lpp
        {: RESULT = lpp; :}

        | LocationPathPattern:lpp VBAR Pattern:p
        {: RESULT = new AlternativePattern(lpp, p);  :};

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

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

        | IdKeyPattern:ikp

      {: RESULT = ikp; :}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

NodeTestPattern ::= NameTestPattern:nt
```

```
        {: RESULT = nt; :}

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

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

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

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

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

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

ChildOrAttributeAxisSpecifier ::= ATSIGN

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

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

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

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

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

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

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

Expr ::= OrExpr:ex
```

```
        {: RESULT = ex; :};

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

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

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

        | AndExpr:ae AND EqualityExpr:ee
        {: RESULT = new LogicalExpr(LogicalExpr.AND,
 ae, ee); :};

EqualityExpr ::= RelationalExpr:re
        {: RESULT = re; :}

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

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

RelationalExpr ::= AdditiveExpr:ae
        {: RESULT = ae; :}

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

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

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

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

AdditiveExpr ::= MultiplicativeExpr:me
        {: RESULT = me; :}

        | AdditiveExpr:ae PLUS  MultiplicativeExpr:me
        {: RESULT = new BinOpExpr(BinOpExpr.PLUS,
 ae, me); :}

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

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

      | MultiplicativeExpr:me MULT UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); :}

      | MultiplicativeExpr:me DIV UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); :}

      | MultiplicativeExpr:me MOD UnaryExpr:ue
      {: RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); :};

UnaryExpr ::= UnionExpr:ue
      {: RESULT = ue; :}

      | MINUS UnaryExpr:ue
      {: RESULT = new UnaryOpExpr(ue); :};

UnionExpr ::= PathExpr:pe
      {: RESULT = pe; :}

      | PathExpr:pe VBAR UnionExpr:rest
      {: RESULT = new UnionPathExpr(pe, rest); :};

PathExpr ::= LocationPath:lp
      {: RESULT = lp; :}

      | FilterExpr:fexp
      {: RESULT = fexp; :}

      | FilterExpr:fexp
 SLASH RelativeLocationPath:rlp
      {: RESULT = new FilterParentPath(fexp, rlp); :}

      | FilterExpr:fexp DSLASH RelativeLocationPath:rlp
      {:
        //
   // Expand '//' into '/descendant-or-self::node()/' or
   // into /descendant-or-self::*/
   //
   int nodeType = DOM.NO_TYPE;
   if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
   {
      nodeType = DTM.ELEMENT_NODE;
   }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
```

```
        FilterParentPath fpp = new FilterParentPath(fexp, step);
        fpp = new FilterParentPath(fpp, rlp);
        if (fexp instanceof KeyCall == false) {
          fpp.setDescendantAxis();
    }
        RESULT = fpp;
      :};

LocationPath ::= RelativeLocationPath:rlp
      {: RESULT = rlp; :}

      | AbsoluteLocationPath:alp
      {: RESULT = alp; :};

RelativeLocationPath ::= Step:step
      {: RESULT
 = step; :}

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

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

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

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

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

AbbreviatedRelativeLocationPath ::= RelativeLocationPath:rlp DSLASH Step:step
      {:
    final Step right  = (Step)step;
        final
```

```
int  axis   = right.getAxis();
        final int  type   = right.getNodeType();
        final Vector predicates = right.getPredicates();

        if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
           // Compress './/child:E' into 'descendant::E' - if possible
           if (predicates == null) {
              right.setAxis(Axis.DESCENDANT);
              if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {
             RESULT = right;
              }
              else {
                 // Expand 'rlp//child::E' into 'rlp/descendant::E'
                 RelativeLocationPath left = (RelativeLocationPath)rlp;
             RESULT = new ParentLocationPath(left, right);
              }
           }
           else {
              // Expand './/step' -> 'descendant-or-self::*/step'
              if (rlp instanceof Step && ((Step)rlp).isAbbreviatedDot()) {

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

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

```
     DOM.NO_TYPE, null);
          ParentLocationPath ppl = new ParentLocationPath(middle, right);
       RESULT = new ParentLocationPath(left, ppl);
   }
     :};


AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
      {:
        //
   // Expand '//' into '/descendant-or-self::node()/' or
   // into /descendant-or-self::*/
   //
   int nodeType = DOM.NO_TYPE;
   if (rlp instanceof Step &&
      parser.isElementAxis(((Step) rlp).getAxis()))
   {
      nodeType = DTM.ELEMENT_NODE;
   }
   final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
   RESULT =
 new AbsoluteLocationPath(parser.insertStep(step,
   (RelativeLocationPath) rlp));
 :};

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

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

```
    :}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

| Literal:string
{:

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

if (index > 0) {
   final String prefix = string.substring(0, index);
   namespace = parser._symbolTable.lookupNamespace(prefix);
```

```
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);
:}

    | INT:num
    {:
  long value = num.longValue();
  if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
 RESULT = new RealExpr(value);
  }
  else {
          if (num.doubleValue() == -0)
             RESULT = new RealExpr(num.doubleValue());
          else if (num.intValue() == 0)
             RESULT = new IntExpr(num.intValue());

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

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

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

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

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

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

FunctionCall ::= FunctionName:fname LPAREN RPAREN
     {:

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

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

```
}
     else {
       RESULT = new FunctionCall(fname, parser.EmptyArgs);
}
   :}

   | FunctionName:fname LPAREN NonemptyArgumentList:argl RPAREN
   {:
     if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
       RESULT = new ConcatCall(fname, argl);
}
     else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
       RESULT = new NumberCall(fname, argl);
}
     else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) {
  parser.setMultiDocument(true);
       RESULT = new DocumentCall(fname, argl);
}
     else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
       RESULT = new StringCall(fname, argl);
}
     else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) {
       RESULT = new BooleanCall(fname, argl);
}
     else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {

   RESULT = new NameCall(fname, argl);
}
     else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
       RESULT = new GenerateIdCall(fname, argl);
}
     else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) {
       RESULT = new NotCall(fname, argl);
}
     else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) {
       RESULT = new FormatNumberCall(fname, argl);
}
     else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) {
       RESULT = new UnparsedEntityUriCall(fname, argl);
}
     else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) {
       RESULT = new KeyCall(fname, argl);
}
     else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) {
       RESULT = new KeyCall(fname, argl);
       parser.setHasIdCall(true);
}
     else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname))
```

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

NonemptyArgumentList
```

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

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

FunctionName ::= QName:fname
      {:
    RESULT = fname;
 :};

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

    | PARENT
```

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

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

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

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


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

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.cup
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the  "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
  * Major version number.
  * Version number. This changes only when there is a
  *         significant, externally apparent
 enhancement from
  *         the previous release. 'n' represents the n'th
  *         version.
  *
  *         Clients should carefully consider the implications
  *         of new versions as external interfaces and behaviour
  *         may have changed.
  */
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one
* or more contributor license agreements. See the NOTICE file
* distributed with this work for additional information
* regarding copyright ownership. The ASF licenses this file
* to you under the Apache License, Version 2.0 (the  "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
* This is a special exception that is used to stop parsing when
* search for an element.  For instance, when searching
 for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StopParseException.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
```

```
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/*
* $Id: xpath.lex 1225752 2011-12-30 04:12:46Z mrglavas $
*/

/*
* @author Jacek Ambroziak
* @author
 Santiago Pericas-Geertsen
* @author Morten Jorgensen
*
*/

package org.apache.xalan.xsltc.compiler;

import java_cup.runtime.Symbol;
%%
%cup
%unicode
%class XPathLexer
%yyeof

%{
    int last;

    void initialize() {
       last = -1;
    }

    static boolean isWhitespace(int c) {
       return (c == ' ' || c == '\t' || c == '\r' || c == '\n'  || c == '\f');
    }

    /**
     * If symbol is not followed by '::' or '(', then treat it as a
     * name instead of an axis or function (Jira-1912).
     */
    Symbol disambiguateAxisOrFunction(int ss) throws Exception {
       // Peek in the input buffer without changing the internal state
       int index = yy_buffer_index;

       // Skip whitespace
       while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
          index++;
```

```
        }

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

      if (index >= yy_buffer_read) {
          // Can't disambiguate, so return as symbol
          return new Symbol(ss);
        }

        // Return symbol if next token is '::' or '('
        return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':' ||
              yy_buffer[index] == '(') ?
              newSymbol(ss) : newSymbol(sym.QNAME, yytext());
      }

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

```
    }

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

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

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

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

    Symbol newSymbol(int ss, Long value) {
```

```
        last = ss;
        return new Symbol(ss, value);
    }

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

%eofval{
return newSymbol(sym.EOF);
%eofval}

%yylexthrow{
Exception
%yylexthrow}

Letter={BaseChar}|{Ideographic}

BaseChar=[\u0041-\u005A\u0061-\u007A\u00C0-\u00D6\u00D8-\u00F6\u00F8-\u00FF\u0100-\u0131\u0134-
\u013E\u0141-\u0148\u014A-\u017E\u0180-\u01C3\u01CD-\u01F0\u01F4-\u01F5\u01FA-\u0217\u0250-
\u02A8\u02BB-\u02C1\u0386\u0388-\u038A\u038C\u038E-\u03A1\u03A3-\u03CE\u03D0-
\u03D6\u03DA\u03DC\u03DE\u03E0\u03E2-\u03F3\u0401-\u040C\u040E-\u044F\u0451-\u045C\u045E-
\u0481\u0490-\u04C4\u04C7-\u04C8\u04CB-\u04CC\u04D0-\u04EB\u04EE-\u04F5\u04F8-\u04F9\u0531-
\u0556\u0559\u0561-\u0586\u05D0-\u05EA\u05F0-\u05F2\u0621-\u063A\u0641-\u064A\u0671-\u06B7\u06BA-
\u06BE\u06C0-\u06CE\u06D0-\u06D3\u06D5\u06E5-\u06E6\u0905-\u0939\u093D\u0958-\u0961\u0985-
\u098C\u098F-\u0990\u0993-\u09A8\u09AA-\u09B0\u09B2\u09B6-\u09B9\u09DC-\u09DD\u09DF-
\u09E1\u09F0-\u09F1\u0A05-\u0A0A\u0A0F-\u0A10\u0A13-\u0A28\u0A2A-\u0A30\u0A32-\u0A33\u0A35-
\u0A36\u0A38-\u0A39\u0A59-\u0A5C\u0A5E\u0A72-\u0A74\u0A85-\u0A8B\u0A8D\u0A8F-\u0A91\u0A93-
\u0AA8\u0AAA-\u0AB0\u0AB2-\u0AB3\u0AB5-\u0AB9\u0ABD\u0AE0\u0B05-\u0B0C\u0B0F-\u0B10\u0B13-
\u0B28\u0B2A-\u0B30\u0B32-\u0B33\u0B36-\u0B39\u0B3D\u0B5C-\u0B5D\u0B5F-\u0B61\u0B85-
\u0B8A\u0B8E-\u0B90\u0B92-\u0B95\u0B99-\u0B9A\u0B9C\u0B9E-\u0B9F\u0BA3-\u0BA4\u0BA8-
\u0BAA\u0BAE-\u0BB5\u0BB7-\u0BB9\u0C05-\u0C0C\u0C0E-\u0C10\u0C12-\u0C28\u0C2A-\u0C33\u0C35-
\u0C39\u0C60-\u0C61\u0C85-\u0C8C\u0C8E-\u0C90\u0C92-\u0CA8\u0CAA-\u0CB3\u0CB5-
\u0CB9\u0CDE\u0CE0-\u0CE1\u0D05-\u0D0C\u0D0E-\u0D10\u0D12-\u0D28\u0D2A-\u0D39\u0D60-
\u0D61\u0E01-\u0E2E\u0E30\u0E32-\u0E33\u0E40-\u0E45\u0E81-\u0E82\u0E84\u0E87-
\u0E88\u0E8A\u0E8D\u0E94-\u0E97\u0E99-\u0E9F\u0EA1-\u0EA3\u0EA5\u0EA7\u0EAA-\u0EAB\u0EAD-
\u0EAE\u0EB0\u0EB2-\u0EB3\u0EBD\u0EC0-\u0EC4\u0F40-\u0F47\u0F49-\u0F69\u10A0-\u10C5\u10D0-
\u10F6\u1100\u1102-\u1103\u1105-\u1107\u1109\u110B-\u110C\u110E-
\u1112\u113C\u113E\u1140\u114C\u114E\u1150\u1154-\u1155\u1159\u115F-
\u1161\u1163\u1165\u1167\u1169\u116D-\u116E\u1172-\u1173\u1175\u119E\u11A8\u11AB\u11AE-
\u11AF\u11B7-\u11B8\u11BA\u11BC-\u11C2\u11EB\u11F0\u11F9\u1E00-\u1E9B\u1EA0-\u1EF9\u1F00-
\u1F15\u1F18-\u1F1D\u1F20-\u1F45\u1F48-\u1F4D\u1F50-\u1F57\u1F59\u1F5B\u1F5D\u1F5F-\u1F7D\u1F80-
\u1FB4\u1FB6-\u1FBC\u1FBE\u1FC2-\u1FC4\u1FC6-\u1FCC\u1FD0-\u1FD3\u1FD6-\u1FDB\u1FE0-
\u1FEC\u1FF2-\u1FF4\u1FF6-\u1FFC\u2126\u212A-\u212B\u212E\u2180-\u2182\u3041-\u3094\u30A1-
\u30FA\u3105-\u312C\uAC00-\uD7A3]
```

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


CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB-
\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7-
\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981-
\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-
\u09E3\u0A02\u0A3C\u0A3E\u0A3F\u0A40-\u0A42\u0A47-\u0A48\u0A4B-\u0A4D\u0A70-\u0A71\u0A81-
\u0A83\u0ABC\u0ABE-\u0AC5\u0AC7-\u0AC9\u0ACB-\u0ACD\u0B01-\u0B03\u0B3C\u0B3E-\u0B43\u0B47-
\u0B48\u0B4B-\u0B4D\u0B56-\u0B57\u0B82-\u0B83\u0BBE-\u0BC2\u0BC6-\u0BC8\u0BCA-
\u0BCD\u0BD7\u0C01-\u0C03\u0C3E-\u0C44\u0C46-\u0C48\u0C4A-\u0C4D\u0C55-\u0C56\u0C82-
\u0C83\u0CBE-\u0CC4\u0CC6-\u0CC8\u0CCA-\u0CCD\u0CD5-\u0CD6\u0D02-\u0D03\u0D3E-\u0D43\u0D46-
\u0D48\u0D4A-\u0D4D\u0D57\u0E31\u0E34-\u0E3A\u0E47-\u0E4E\u0EB1\u0EB4-\u0EB9\u0EBB-
\u0EBC\u0EC8-\u0ECD\u0F18-\u0F19\u0F35\u0F37\u0F39\u0F3E\u0F3F\u0F71-\u0F84\u0F86-\u0F8B\u0F90-
\u0F95\u0F97\u0F99-\u0FAD\u0FB1-\u0FB7\u0FB9\u20D0-\u20DC\u20E1\u302A-\u302F\u3099\u309A]


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

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

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

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

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

HighSurrogate=[\uD800-\uDBFF]

LowSurrogate=[\uDC00-\uDFFF]

%%

"*"                 { return disambiguateStar(); }
"/"                 { return newSymbol(sym.SLASH); }
"+"                 { return newSymbol(sym.PLUS); }
"-"                 { return newSymbol(sym.MINUS); }
"div"               { return disambiguateOperator(sym.DIV); }
"mod"               { return disambiguateOperator(sym.MOD); }
"::"                { return newSymbol(sym.DCOLON); }
","                 { return newSymbol(sym.COMMA); }
"@"                 { return newSymbol(sym.ATSIGN); }
```

```
".."                    { return newSymbol(sym.DDOT); }
"|"
  { return newSymbol(sym.VBAR); }
"$"                     { return newSymbol(sym.DOLLAR); }
"//"                    { return newSymbol(sym.DSLASH); }
"="                     { return newSymbol(sym.EQ); }
"!="                    { return newSymbol(sym.NE); }
"<"                     { return newSymbol(sym.LT); }
">"                     { return newSymbol(sym.GT); }
"<="                    { return newSymbol(sym.LE); }
">="                    { return newSymbol(sym.GE); }
"id"                    { return disambiguateAxisOrFunction(sym.ID); }
"key"                   { return disambiguateAxisOrFunction(sym.KEY); }
"text()"                { return newSymbol(sym.TEXT); }
"text"+[ \t\r\n\f]+"()"  { return newSymbol(sym.TEXT); }
"node()"                { return newSymbol(sym.NODE); }
"node"+[ \t\r\n\f]+"()"  { return newSymbol(sym.NODE); }
"comment()"             { return newSymbol(sym.COMMENT); }
"comment"+[ \t\r\n\f]+"()"  { return newSymbol(sym.COMMENT); }
"processing-instruction"
 { return disambiguateAxisOrFunction(sym.PIPARAM); }
"processing-instruction()"          { return newSymbol(sym.PI); }
"processing-instruction"+[ \t\r\n\f]+"()" { return newSymbol(sym.PI); }
"or"                    { return disambiguateOperator(sym.OR); }
"and"                   { return disambiguateOperator(sym.AND); }
"child"                 { return disambiguateAxisOrFunction(sym.CHILD); }
"attribute"             { return disambiguateAxisOrFunction(sym.ATTRIBUTE); }
"ancestor"              { return disambiguateAxisOrFunction(sym.ANCESTOR); }
"ancestor-or-self"      { return disambiguateAxisOrFunction(sym.ANCESTORORSELF); }
"descendant"            { return disambiguateAxisOrFunction(sym.DESCENDANT); }
"descendant-or-self"    { return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); }
"following"             { return disambiguateAxisOrFunction(sym.FOLLOWING); }
"following-sibling"     { return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING);
 }
"namespace"             { return disambiguateAxisOrFunction(sym.NAMESPACE); }
"parent"                { return disambiguateAxisOrFunction(sym.PARENT); }
"preceding"             { return disambiguateAxisOrFunction(sym.PRECEDING); }
"preceding-sibling"     { return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); }
"self"                  { return disambiguateAxisOrFunction(sym.SELF); }
"["                     { return newSymbol(sym.LBRACK); }
"]"                     { return newSymbol(sym.RBRACK); }
"("                     { return newSymbol(sym.LPAREN); }
")"                     { return newSymbol(sym.RPAREN); }
"<PATTERN>"             { initialize(); return new Symbol(sym.PATTERN); }
"<EXPRESSION>"          { initialize(); return new Symbol(sym.EXPRESSION); }
\"[^\"]*\"              { return newSymbol(sym.Literal,
       yytext().substring(1, yytext().length() - 1)); }
\'[^\']*\'              { return newSymbol(sym.Literal,
```

```
        yytext().substring(1,
 yytext().length() - 1)); }
{Digit}+                { return newSymbol(sym.INT, new Long(yytext())); }
{Digit}+("."{Digit}*)?   { return newSymbol(sym.REAL, new Double(yytext())); }
"."{Digit}+             { return newSymbol(sym.REAL, new Double(yytext())); }
"."                     { return newSymbol(sym.DOT); }
({NCName}":")?{NCName}   { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"*"        { return newSymbol(sym.QNAME, yytext()); }
({NCName}":")?"@*"       { return newSymbol(sym.QNAME, yytext()); }
[ \t\r\n\f]             { /* ignore white space. */ }
.                       { throw new Exception(yytext()); }
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/xpath.lex
No license file was found, but licenses were detected in source scan.

```
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* limitations under the License.
*/
// Proprietary, built in functions
/** current function string (Proprietary). */
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/Keywords.java
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*/
// is found, then throw a special exception in order to terminate

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/QueuedEvents.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
*
 /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/NodeLocator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToStream.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/MessageHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ElemDesc.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemForEach.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_zh.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncBoolean.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeSetType.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CurrentCall.java

* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TransformerHandlerImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/When.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/SecuritySupport.java
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/axes/WalkingIteratorSorted.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemWhen.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_ja.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StylesheetPIHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncSubstring.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/TrAXFilter.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncConcat.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_CN.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ko.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/XSLTCSource.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/AttributeIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToIntTable.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/LoadDocument.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_hu.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Equals.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Pattern.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorExsltFuncResult.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/DOMEnhancedForDTM.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/MatchingIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNot.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLTAttributeDef.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringToStringTableVector.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/If.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/SerializerTraceWriter.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Lt.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/PrefixResolver.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_en.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToTextSAXHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/StringArrayWrapper.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Choose.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemFallback.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/XalanProperties.java
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncUnparsedEntityURI.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/KeyIterator.java

* /xalan-2-7-2-sources-jar/org/apache/xml/utils/DOM2Helper.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/Hashtable.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/UnionIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NthIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Stylesheet.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_sk.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/XSLTC.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_pt_BR.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLMessages.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMNodeProxy.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/StartsWithCall.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ElemContext.java
*
/xalan-2-7-2-sources-jar/org/apache/xpath/XPathProcessorException.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeCounterGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_he.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncRound.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MethodGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IntExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Fallback.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_ja.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/DOMOrder.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LangCall.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionsTable.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/Minus.java
*
/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/CharArrayWrapper.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CastExpr.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_pl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/ExtensionNamespaceSupport.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/ObjectFactory.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/TransletException.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/StringBufferPool.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/And.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToSAXHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_ca.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_pl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/AVTPartXPath.java
*
/xalan-2-7-2-sources-jar/org/apache/xml/serializer/ExtendedLexicalHandler.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/XPathVisitable.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/WhiteSpaceInfo.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/trace/EndSelectionEvent.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLang.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/DOM2SAX.java

* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ka.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/TransformerIdentityImpl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/IntVector.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/ProcessorGlobalVariableDecl.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_tr.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/PredicatedNodeTest.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/OpCodes.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_hy.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTemplateElement.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LiteralElement.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemTextLiteral.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/utils/SerializerMessages_de.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Step.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/util/IntegerArray.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_pt_BR.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XString.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_de.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/DescendantIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToXMLStream.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/objects/XNodeSet.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemText.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/FilterParentPath.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Sort.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncLast.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/CeilingCall.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/Function3Args.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/URI.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/XPath.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/RealType.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/DecimalFormatProperties.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_pt_BR.java
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/NamespaceMappings.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_zh.java
*
/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/AttributeValue.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/NodeSortKey.java
* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_ko.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrorResources_tr.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResourceBundleBase.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMFilter.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Key.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_cy.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncId.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ContainsCall.java

* /xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_zh_TW.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_sv.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/LongArrayWrapper.java
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemPI.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/SecuritySupport.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/output/StringOutputBuffer.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLStringDefault.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/IncrementalSAXSource_Xerces.java
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ko.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NodeSortRecord.java
* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncNormalizeSpace.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/RtMethodGenerator.java
* /xalan-2-7-2-sources-jar/org/apache/xml/dtm/ref/DTMSafeStringPool.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ca.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/BasisLibrary.java
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* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_sl.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/AbsoluteIterator.java

* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/CurrentNodeListIterator.java
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/IllegalCharException.java
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* /xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
*
 /xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/domapi/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/templates/package.html
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/extensions/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
*
 /xalan-2-7-2-sources-jar/org/apache/xpath/objects/package.html
* /xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
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*/
/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

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

 /**
  * Get the basic version string for the current Serializer.
  * Version String formatted like
  * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
  *
  * Futurework: have this read version info from jar manifest.
  *
  * @return String denoting our current version
  */
 public static String getVersion()
 {
   return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
        +( (getDevelopmentVersionNum() > 0) ?
           ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }
```

```
/**
 * Print the processor version to the command
line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
  System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
  return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
  return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *         significant, externally apparent enhancement from
 *         the previous release. 'n' represents the n'th
 *         version.
 *
 *         Clients should carefully consider the implications
 *         of new versions as external interfaces and behaviour
 *         may have changed.
 */
public static int getMajorVersionNum()
{
  return @version.VERSION@;

}

/**
 * Release Number.
```

```
 * Release number. This
changes when:
 *          - a new set of functionality is to be added, eg,
 *            implementation of a new W3C specification.
 *          - API or behaviour change.
 *          - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
  return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *         drop applied to a specific release and contains
 *         fixes for defects reported. It maintains compatibility
 *         with the release and contains no API changes.
 *         When missing, it designates the final and complete
 *         development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
  return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *         a specific release. D01 is the first development
drop
 *         of a new release.
 *
 *         Development drops are works in progress towards a
 *         compeleted, final release. A specific development drop
 *         may not completely implement all aspects of a new
 *         feature, which may take several development drops to
 *         complete. At the point of the final drop for the
 *         release, the D suffix will be omitted.
 *
 *         Each 'D' drops can contain functional enhancements as
 *         well as defect fixes. 'D' drops may not be as stable as
 *         the final releases.
 */
public static int getDevelopmentVersionNum()
{
  try {
     if ((new String("@version.DEVELOPER@")).length() == 0)
```

```
        return 0;
      else
        return Integer.parseInt("@version.DEVELOPER@");
  } catch (NumberFormatException nfe) {
       return 0;
  }
 }
}
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/Version.src
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```

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*/
// Proprietary
/** The 'document-location()' id (Proprietary). */
```

Found in path(s):
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*/
/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
 * Administrative class to keep track of the version number of
* the Xalan release.
* <P>See also: org/apache/xalan/res/XSLTInfo.properties</P>
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()
* @xsl.usage general
*/
public class XSLProcessorVersion
{

 /**
  * Print the processor version to the command line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
 {
  System.out.println(S_VERSION);
 }

 /**
```

```
 * Constant name of product.
 */
public static final String PRODUCT = "Xalan";

/**
 * Implementation Language.
 */
public static final String LANGUAGE = "Java";

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

/**
 * Release Number.
 * Release number. This changes when:
 *           - a new set of functionality is to be added, eg,
 *             implementation of a new W3C specification.
 *           - API or behaviour change.
 *           - its designated as a reference release.
 */
public static final int RELEASE = @version.RELEASE@;

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *         drop applied to a specific release and contains
 *         fixes for defects reported. It maintains compatibility
 *         with the release and contains no API changes.
 *         When missing, it designates the final and complete
 *         development drop for a release.
 */
public static final int MAINTENANCE
= @version.MINOR@;

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
```

```
 *         a specific release. D01 is the first development drop
 *         of a new release.
 *
 *         Development drops are works in progress towards a
 *         compeleted, final release. A specific development drop
 *         may not completely implement all aspects of a new
 *         feature, which may take several development drops to
 *         complete. At the point of the final drop for the
 *         release, the D suffix will be omitted.
 *
 *         Each 'D' drops can contain functional enhancements as
 *         well as defect fixes. 'D' drops may not be as stable as
 *         the final releases.
 */
public static final int DEVELOPMENT = 0;

/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B>
 * v.r[.dd| <B>D</B>nn]"</CODE>.
 * <P>Semantics of the version string are
identical to the Xerces project.</P>
 */
public static final String S_VERSION = PRODUCT+" "+LANGUAGE+" "
                        +VERSION+"."+RELEASE+"."
                        +(DEVELOPMENT > 0 ? ("D"+DEVELOPMENT)
                         : (""+MAINTENANCE));

}
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src
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```

*/

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*/
// Attribution to: "Voytenko, Dimitry" <DVoytenko@SECTORBASE.COM>

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* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/ToHTMLStream.java
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* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_text.properties
* /xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTInfo.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_xml.properties
* /xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Makefile.inc
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/HTMLEntities.properties
* /xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties
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*/
/**
* Execute the proprietary document-location() function, which returns
* a node set of documents.
* @xsl.usage advanced
 */
```

Found in path(s):
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*/
/*
* $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
*/
package org.apache.xalan;
```

```
/**
* Administrative
 class to keep track of the version number of
* the Xalan release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
* to get version information.  This class will replace the older
* org.apache.xalan.processor.Version class.</P>
* <P>See also: org/apache/xalan/res/XSLTInfo.properties for
* information about the version of the XSLT spec we support.</P>
* @xsl.usage general
*/
public class Version
{

 /**
  * Get the basic version string for the current Xalan release.
  * Version String formatted like
  * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
  *
  * Futurework: have this read version info from jar manifest.
  *
  * @return String denoting our current version
  */
 public static String getVersion()
 {
   return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."

      +( (getDevelopmentVersionNum() > 0) ?
           ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
 }

 /**
  * Print the processor version to the command line.
  *
  * @param argv command line arguments, unused.
  */
 public static void main(String argv[])
 {
  System.out.println(getVersion());
 }

 /**
  * Name of product: Xalan.
  */
 public static String getProduct()
 {
```

```
  return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
  return "Java";
}


/**
 * Major version number.
 * Version number. This changes only when there is a
 *          significant, externally apparent enhancement from
 *          the previous release. 'n' represents the n'th
 *          version.
 *
 *          Clients should carefully consider the implications
 *          of new versions as external interfaces and behaviour
 *
        may have changed.
 */
public static int getMajorVersionNum()
{
  return @version.VERSION@;

}

/**
 * Release Number.
 * Release number. This changes when:
 *           -  a new set of functionality is to be added, eg,
 *              implementation of a new W3C specification.
 *           -  API or behaviour change.
 *           -  its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
  return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 *          drop applied to a specific release and contains
 *          fixes for defects reported. It maintains compatibility
```

```
 *          with the release and contains no API changes.
 *          When missing, it designates the final and complete
 *          development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
  return
@version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 *          a specific release. D01 is the first development drop
 *          of a new release.
 *
 *          Development drops are works in progress towards a
 *          compeleted, final release. A specific development drop
 *          may not completely implement all aspects of a new
 *          feature, which may take several development drops to
 *          complete. At the point of the final drop for the
 *          release, the D suffix will be omitted.
 *
 *          Each 'D' drops can contain functional enhancements as
 *          well as defect fixes. 'D' drops may not be as stable as
 *          the final releases.
 */
public static int getDevelopmentVersionNum()
{
  try {
      if ((new String("@version.DEVELOPER@")).length() == 0)
        return 0;
      else
        return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
         return 0;
  }
 }
}
```

Found in path(s):
* /xalan-2-7-2-sources-jar/org/apache/xalan/Version.src

1.214 dash 0.5.12-6ubuntu5

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1.215 lumberjack 2.0.0

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1.216 init-system-helpers 1.66ubuntu1

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freedom to share and change it. By contrast, the GNU General Public
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This license, the Lesser General Public License, applies to some
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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
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For example, if you distribute copies of the library,

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

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

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

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

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

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

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

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

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

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into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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

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

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

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

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

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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
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1.222 distlib 0.3.8

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

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

principal author, although it includes many contributions from others.

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes

2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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

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==========

Distutils2 Contributors

==========

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

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

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

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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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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
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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
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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
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1.230 rpc 2.0.3

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1.232 gnutls 3.8.3-1.1ubuntu3.4

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
```

```
   * The 'basename' command eliminates trailing slashes and for a root
     produces a non-empty result:
           FILENAME      RESULT
           "foo/bar/"    "bar"
           "foo/bar//"   "bar"
           "/"           "/"
           "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;



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

#endif /* _BASENAME_LGPL_H */
```

```
======================================================================
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##
Constant-time SSSE3 AES core implementation.
version 0.1
##
By Mike Hamburg (Stanford University), 2009
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##
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1.234 pgpassfile 1.0.0

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1.235 dictionaries-common 1.29.7

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1.236 kingpin 2.4.0

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1.237 theora 1.1.1+dfsg.1-16.1build3

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Upstream-Contact: Monty <monty@xiph.org>
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1.238 codegangsta-cli 1.20.0

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1.239 gstreamer 1.24.2-1ubuntu0.1

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Upstream-Name: GStreamer core 1.0
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Files: gst/gst.c
gst/gst.h
gst/gst_private.h
gst/gstbin.c
gst/gstbin.h
gst/gstbuffer.c
gst/gstbuffer.h
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gst/gsttypefind.h

gst/gsttypefindfactory.c
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Ext headers	GL/glext.h	Khronos
	GL/glxext.h	Khronos
	GL/wglext.h	Khronos
	KHR/khrplatform.h	Khronos

****

---
include/GL/gl.h :

Mesa 3-D
graphics library

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include/GL/glxext.h
include/GL/wglxext.h :

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# 1.242 hashicorp-uuid 1.0.3

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Written by: Philip Hazel
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Special notes about writing wxMSW code
==========

0. Purpose

This is just a collection of various notes which should be useful to anybody working on wxMSW codebase, please feel free to add more here.

This text assumes familiarity with both Windows programming and wxWidgets so it doesn't cover any wxWidgets-wide issues not specific to Windows.

1. Windows headers wrappers

In no event should the Windows headers such as `<windows.h>` or `<commctrl.h>` be included directly. So instead of `#include <...>` use `"wx/msw/wrapwin.h"` or `wx/msw/wrapcctl.h`.

For convenience it is also possible to replace `#include <commdlg.h>` and `<shlobj.h>` with `#include "wx/msw/wrapcdlg.h"` and `wrapshl.h` but this is less vital.

Also notice that many convenient (albeit undocumented) functions and classes are declared in "wx/msw/private.h", please do become familiar with this file contents and use the utility classes and functions from
it instead of
duplicating their functionality (which can often be done only in exception unsafe way).

2. Utility classes
---

wxWidgets provides a couple of useful (mostly undocumented) classes making Windows API easier to work with.

Please whenever possible do not use raw pointers for BSTR, COM interfaces or task memory, use the appropriate RAII wrapper instead (see below).

Grep wxWidgets source code for the class name to see how it is to be used.

wxBasicString: for `BSTR`, in `"wx/msw/ole/oleutils.h"`

wxCOMPtr: simplistic smart pointer for COM interfaces, in `"wx/msw/private/comptr.h"`

wxCoTaskMemPtr: smart pointer for memory allocated/freed with `CoTaskMem{Alloc/Free}()`, in `"wx/msw/private/cotaskmemptr.h"`

wxSafeArray: for `SAFEARRAY`, in `"wx/msw/ole/safearray.h"`

3. Windows features checks

All checks of features not present in all Windows versions must be done both at compile-time (because, even though we use
maximal value for WINVER in our code,
some compilers come with headers too old to declare them) and at run-time

(because wxMSW applications should run everywhere).

The functions wxGetWinVersion() (from wx/msw/private.h) and wxApp::
GetComCtl32Version() should be used to check Windows and comctl32.dll versions
respectively.

Any functions which may not be present in kernel32.dll/user32.dll/... in all
Windows versions should be resolved dynamically, i.e. using wxDynamicLibrary as
otherwise any wx application -- even not needing them at all -- would refuse to
start up on Windows versions not implementing the feature in question. As an
example, look at AlphaBlt()-related code in src/msw/dc.cpp.
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tools/antRun
tools/antRun.bat
Source: http://ant.apache.org/
Used By: Xalan's build process: java/build.xml and test/build.xml

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Source: http://svn.apache.org/viewvc/xml/stylebook/

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David Megginson, david@megginson.com
2000-05-05

1.249 nkeys 0.4.7

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1.250 dario.cat-mergo 1.0.2

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```
{
  "import": "./thing.json",
  "fields": {
     "site": "string",
     "author": "updater"
  }
}
```

1.251 libxcrypt 1:4.4.36-4build1

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1.252 commons-beanutils 1.9.4

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1.253 libxxf86vm 1:1.1.4-1build4

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1.254 xz 5.6.1+really5.4.5-1ubuntu0.2

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https://tukaani.org/xz/lists.html
Source:
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1.255 llvm 1:20.1.2-0ubuntu1~24.04.2

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```
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-- | FileCheck %s

; A shuffle mask with all undef elements is always legal.

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:       // %bb.0:
; CHECK-NEXT:    ext v0.8b, v0.8b, v1.8b, #4
```

```
; CHECK-NEXT:    mov v0.d[1], v0.d[0]
; CHECK-NEXT:    ret
 %cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
 %cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
 %r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
 ret <4 x i32> %r
}
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --include-generated-
funcs
; RUN: opt -S -passes=verify,iroutliner -ir-outlining-no-cost < %s | FileCheck %s
; RUN: opt -S -passes=verify,iroutliner -ir-outlining-no-cost < %s --try-experimental-debuginfo-iterators | FileCheck
%s

; This test checks that debug info is recognized as able to be extracted along
; with the other instructions, but is not included in the consolidated function.

define void @function1() !dbg !6 {
entry:
 %a = alloca i32, align 4, !dbg !17
 call void @llvm.dbg.value(metadata ptr %a, metadata !9, metadata !DIExpression()), !dbg !17
 %b = alloca i32, align 4, !dbg !18
 call void @llvm.dbg.value(metadata ptr %b, metadata !11, metadata !DIExpression()), !dbg !18
 %c = alloca i32, align 4, !dbg !19
 call void @llvm.dbg.value(metadata ptr %c, metadata !12, metadata !DIExpression()), !dbg !19
 store i32 2, ptr %a, align 4, !dbg !20
 store i32 3, ptr %b, align 4, !dbg !21
 store
 i32 4, ptr %c, align 4, !dbg !22
 %al = load i32, ptr %a, align 4, !dbg !23
 call void @llvm.dbg.value(metadata i32 %al, metadata !13, metadata !DIExpression()), !dbg !23
 %bl = load i32, ptr %b, align 4, !dbg !24
 call void @llvm.dbg.value(metadata i32 %bl, metadata !15, metadata !DIExpression()), !dbg !24
 %cl = load i32, ptr %c, align 4, !dbg !25
 call void @llvm.dbg.value(metadata i32 %cl, metadata !16, metadata !DIExpression()), !dbg !25
 ret void, !dbg !26
}

define void @function2() !dbg !27 {
entry:
 %a = alloca i32, align 4, !dbg !35
 call void @llvm.dbg.value(metadata ptr %a, metadata !29, metadata !DIExpression()), !dbg !35
 %b = alloca i32, align 4, !dbg !36
 call void @llvm.dbg.value(metadata ptr %b, metadata !30, metadata !DIExpression()), !dbg !36
 %c = alloca i32, align 4, !dbg !37
 call void @llvm.dbg.value(metadata ptr %c, metadata !31, metadata !DIExpression()), !dbg !37
 store i32 2, ptr %a, align 4, !dbg !38
 store i32 3, ptr %b, align 4, !dbg !39
```

```
  store i32 4, ptr %c, align 4, !dbg !40
 %al = load i32, ptr %a, align 4, !dbg !41
 call void @llvm.dbg.value(metadata i32 %al, metadata !32, metadata !DIExpression()), !dbg !41
 %bl = load i32, ptr %b, align 4, !dbg !42
 call void @llvm.dbg.value(metadata i32 %bl, metadata !33, metadata !DIExpression()), !dbg !42
 %cl = load i32, ptr %c, align 4, !dbg !43
 call void @llvm.dbg.value(metadata i32 %cl, metadata !34, metadata !DIExpression()), !dbg !43
 ret void, !dbg !44
}


; Function Attrs: nounwind readnone speculatable willreturn
declare void @llvm.dbg.value(metadata, metadata, metadata) #0

attributes #0 = { nounwind readnone speculatable willreturn }

!llvm.dbg.cu = !{!0}
!llvm.debugify = !{!3, !4}
!llvm.module.flags = !{!5}

!0 = distinct !DICompileUnit(language: DW_LANG_C, file: !1, producer: "debugify", isOptimized: true,
runtimeVersion: 0, emissionKind: FullDebug, enums: !2)
!1 = !DIFile(filename: "legal-debug.ll", directory: "/")
!2 = !{}
!3 = !{i32 20}
!4 = !{i32 12}
!5
 = !{i32 2, !"Debug Info Version", i32 3}
!6 = distinct !DISubprogram(name: "function1", linkageName: "function1", scope: null, file: !1, line: 1, type: !7,
scopeLine: 1, spFlags: DISPFlagDefinition | DISPFlagOptimized, unit: !0, retainedNodes: !8)
!7 = !DISubroutineType(types: !2)
!8 = !{!9, !11, !12, !13, !15, !16}
!9 = !DILocalVariable(name: "1", scope: !6, file: !1, line: 1, type: !10)
!10 = !DIBasicType(name: "ty64", size: 64, encoding: DW_ATE_unsigned)
!11 = !DILocalVariable(name: "2", scope: !6, file: !1, line: 2, type: !10)
!12 = !DILocalVariable(name: "3", scope: !6, file: !1, line: 3, type: !10)
!13 = !DILocalVariable(name: "4", scope: !6, file: !1, line: 7, type: !14)
!14 = !DIBasicType(name: "ty32", size: 32, encoding: DW_ATE_unsigned)
!15 = !DILocalVariable(name: "5", scope: !6, file: !1, line: 8, type: !14)
!16 = !DILocalVariable(name: "6", scope: !6, file: !1, line: 9, type: !14)
!17 = !DILocation(line: 1, column: 1, scope: !6)
!18 = !DILocation(line: 2, column: 1, scope:
 !6)
!19 = !DILocation(line: 3, column: 1, scope: !6)
!20 = !DILocation(line: 4, column: 1, scope: !6)
!21 = !DILocation(line: 5, column: 1, scope: !6)
!22 = !DILocation(line: 6, column: 1, scope: !6)
!23 = !DILocation(line: 7, column: 1, scope: !6)
```

```
!24 = !DILocation(line: 8, column: 1, scope: !6)
!25 = !DILocation(line: 9, column: 1, scope: !6)
!26 = !DILocation(line: 10, column: 1, scope: !6)
!27 = distinct !DISubprogram(name: "function2", linkageName: "function2", scope: null, file: !1, line: 11, type: !7,
scopeLine: 11, spFlags: DISPFlagDefinition | DISPFlagOptimized, unit: !0, retainedNodes: !28)
!28 = !{!29, !30, !31, !32, !33, !34}
!29 = !DILocalVariable(name: "7", scope: !27, file: !1, line: 11, type: !10)
!30 = !DILocalVariable(name: "8", scope: !27, file: !1, line: 12, type: !10)
!31 = !DILocalVariable(name: "9", scope: !27, file: !1, line: 13, type: !10)
!32 = !DILocalVariable(name: "10", scope: !27, file: !1, line: 17, type: !14)
!33 = !DILocalVariable(name: "11", scope:
 !27, file: !1, line: 18, type: !14)
!34 = !DILocalVariable(name: "12", scope: !27, file: !1, line: 19, type: !14)
!35 = !DILocation(line: 11, column: 1, scope: !27)
!36 = !DILocation(line: 12, column: 1, scope: !27)
!37 = !DILocation(line: 13, column: 1, scope: !27)
!38 = !DILocation(line: 14, column: 1, scope: !27)
!39 = !DILocation(line: 15, column: 1, scope: !27)
!40 = !DILocation(line: 16, column: 1, scope: !27)
!41 = !DILocation(line: 17, column: 1, scope: !27)
!42 = !DILocation(line: 18, column: 1, scope: !27)
!43 = !DILocation(line: 19, column: 1, scope: !27)
!44 = !DILocation(line: 20, column: 1, scope: !27)
; CHECK-LABEL: @function1(
; CHECK-NEXT:  entry:
; CHECK-NEXT:    [[A:%.*]] = alloca i32, align 4, !dbg [[DBG17:![0-9]+]]
; CHECK-NEXT:      #dbg_value(ptr [[A]], [[META9:![0-9]+]], !DIExpression(), [[DBG17]])
; CHECK-NEXT:    [[B:%.*]] = alloca i32, align 4, !dbg [[DBG18:![0-9]+]]
; CHECK-NEXT:      #dbg_value(ptr [[B]], [[META11:![0-9]+]], !DIExpression(), [[DBG18]])
; CHECK-NEXT:
   [[C:%.*]] = alloca i32, align 4, !dbg [[DBG19:![0-9]+]]
; CHECK-NEXT:      #dbg_value(ptr [[C]], [[META12:![0-9]+]], !DIExpression(), [[DBG19]])
; CHECK-NEXT:    call void @outlined_ir_func_0(ptr [[A]], ptr [[B]], ptr [[C]]), !dbg [[DBG20:![0-9]+]]
; CHECK-NEXT:    ret void, !dbg [[DBG21:![0-9]+]]
;
;
; CHECK-LABEL: @function2(
; CHECK-NEXT:  entry:
; CHECK-NEXT:    [[A:%.*]] = alloca i32, align 4, !dbg [[DBG30:![0-9]+]]
; CHECK-NEXT:      #dbg_value(ptr [[A]], [[META24:![0-9]+]], !DIExpression(), [[DBG30]])
; CHECK-NEXT:    [[B:%.*]] = alloca i32, align 4, !dbg [[DBG31:![0-9]+]]
; CHECK-NEXT:      #dbg_value(ptr [[B]], [[META25:![0-9]+]], !DIExpression(), [[DBG31]])
; CHECK-NEXT:    [[C:%.*]] = alloca i32, align 4, !dbg [[DBG32:![0-9]+]]
; CHECK-NEXT:      #dbg_value(ptr [[C]], [[META26:![0-9]+]], !DIExpression(), [[DBG32]])
; CHECK-NEXT:    call void @outlined_ir_func_0(ptr [[A]], ptr [[B]], ptr [[C]]), !dbg [[DBG33:![0-9]+]]
; CHECK-NEXT:    ret void, !dbg [[DBG34:![0-9]+]]
;
;
```

```
;
 CHECK-LABEL: define {{.+}} @outlined_ir_func_0(
; CHECK-NEXT:  newFuncRoot:
; CHECK-NEXT:    br label [[ENTRY_TO_OUTLINE:%.*]]
; CHECK:       entry_to_outline:
; CHECK-NEXT:    store i32 2, ptr [[TMP0:%.*]], align 4
; CHECK-NEXT:    store i32 3, ptr [[TMP1:%.*]], align 4
; CHECK-NEXT:    store i32 4, ptr [[TMP2:%.*]], align 4
; CHECK-NEXT:    [[AL:%.*]] = load i32, ptr [[TMP0]], align 4
; CHECK-NEXT:    [[BL:%.*]] = load i32, ptr [[TMP1]], align 4
; CHECK-NEXT:    [[CL:%.*]] = load i32, ptr [[TMP2]], align 4
; CHECK-NEXT:    br label [[ENTRY_AFTER_OUTLINE_EXITSTUB:%.*]]
; CHECK:       entry_after_outline.exitStub:
; CHECK-NEXT:    ret void
;
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc -mtriple=amdgcn -mcpu=fiji < %s | FileCheck -enable-var-scope --check-prefixes=GCN,GCN-
SAFE,VI,VI-SAFE %s
; RUN: llc -enable-no-signed-zeros-fp-math -mtriple=amdgcn -mcpu=fiji < %s | FileCheck -enable-var-scope --
check-prefixes=GCN,GCN-NSZ,VI,VI-NSZ %s

; ----------------------------------------------------------------------------
; rcp tests
; ----------------------------------------------------------------------------

define half @v_fneg_rcp_f16(half %a) #0 {
; GCN-LABEL: v_fneg_rcp_f16:
; GCN:       ; %bb.0:
; GCN-NEXT:    s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT:    v_rcp_f16_e64 v0, -v0
; GCN-NEXT:    s_setpc_b64 s[30:31]
 %rcp = call half @llvm.amdgcn.rcp.f16(half %a)
 %fneg = fneg half %rcp
 ret half %fneg
}

define half @v_fneg_rcp_fneg_f16(half %a) #0 {
; GCN-LABEL: v_fneg_rcp_fneg_f16:
; GCN:       ; %bb.0:
; GCN-NEXT:    s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT:
    v_rcp_f16_e32 v0, v0
; GCN-NEXT:    s_setpc_b64 s[30:31]
 %fneg.a = fneg half %a
 %rcp = call half @llvm.amdgcn.rcp.f16(half %fneg.a)
 %fneg = fneg half %rcp
 ret half %fneg
}
```

```
define { half, half } @v_fneg_rcp_store_use_fneg_f16(half %a) #0 {
; GCN-LABEL: v_fneg_rcp_store_use_fneg_f16:
; GCN:       ; %bb.0:
; GCN-NEXT:    s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT:    v_rcp_f16_e32 v2, v0
; GCN-NEXT:    v_xor_b32_e32 v1, 0x8000, v0
; GCN-NEXT:    v_mov_b32_e32 v0, v2
; GCN-NEXT:    s_setpc_b64 s[30:31]
 %fneg.a = fneg half %a
 %rcp = call half @llvm.amdgcn.rcp.f16(half %fneg.a)
 %fneg = fneg half %rcp
 %insert.0 = insertvalue { half, half } poison, half %fneg, 0
 %insert.1 = insertvalue { half, half } %insert.0, half %fneg.a, 1
 ret { half, half } %insert.1
}

define { half, half } @v_fneg_rcp_multi_use_fneg_f16(half %a, half %c) #0 {
; GCN-LABEL: v_fneg_rcp_multi_use_fneg_f16:
; GCN:       ; %bb.0:
; GCN-NEXT:    s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT:
    v_rcp_f16_e32 v2, v0
; GCN-NEXT:    v_mul_f16_e64 v1, -v0, v1
; GCN-NEXT:    v_mov_b32_e32 v0, v2
; GCN-NEXT:    s_setpc_b64 s[30:31]
 %fneg.a = fneg half %a
 %rcp = call half @llvm.amdgcn.rcp.f16(half %fneg.a)
 %fneg = fneg half %rcp
 %use1 = fmul half %fneg.a, %c
 %insert.0 = insertvalue { half, half } poison, half %fneg, 0
 %insert.1 = insertvalue { half, half } %insert.0, half %use1, 1
 ret { half, half } %insert.1
}

; --------------------------------------------------------------------------------
; sin tests
; --------------------------------------------------------------------------------

define half @v_fneg_amdgcn_sin_f16(half %a) #0 {
; GCN-LABEL: v_fneg_amdgcn_sin_f16:
; GCN:       ; %bb.0:
; GCN-NEXT:    s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT:    v_sin_f16_e64 v0, -v0
; GCN-NEXT:    s_setpc_b64 s[30:31]
 %sin = call half @llvm.amdgcn.sin.f16(half %a)
 %fneg = fneg half %sin
 ret half %fneg
```

```
}

; ---------------------------------------------------------------------------
;
 vintrp tests
; ---------------------------------------------------------------------------

define { float, float } @v_fneg_interp_p1_f16(float %a, float %b) #0 {
; GCN-LABEL: v_fneg_interp_p1_f16:
; GCN:       ; %bb.0:
; GCN-NEXT:    s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT:    v_mul_f32_e64 v1, v0, -v1
; GCN-NEXT:    s_mov_b32 m0, 0
; GCN-NEXT:    s_setreg_imm32_b32 hwreg(HW_REG_MODE, 2, 2), 3
; GCN-NEXT:    v_interp_p1ll_f16 v0, v1, attr0.x
; GCN-NEXT:    v_interp_p1ll_f16 v1, v1, attr0.y
; GCN-NEXT:    s_setpc_b64 s[30:31]
 %mul = fmul float %a, %b
 %fneg = fneg float %mul
 %intrp0 = call float @llvm.amdgcn.interp.p1.f16(float %fneg, i32 0, i32 0, i1 false, i32 0)
 %intrp1 = call float @llvm.amdgcn.interp.p1.f16(float %fneg, i32 1, i32 0, i1 false, i32 0)
 %insert.0 = insertvalue { float, float } poison, float %intrp0, 0
 %insert.1 = insertvalue { float, float } %insert.0, float %intrp1, 1
 ret { float, float } %insert.1
}

define
 { half, half } @v_fneg_interp_p2_f16(float %a, float %b) #0 {
; GCN-LABEL: v_fneg_interp_p2_f16:
; GCN:       ; %bb.0:
; GCN-NEXT:    s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT:    v_mul_f32_e64 v1, v0, -v1
; GCN-NEXT:    v_mov_b32_e32 v2, 4.0
; GCN-NEXT:    s_mov_b32 m0, 0
; GCN-NEXT:    s_setreg_imm32_b32 hwreg(HW_REG_MODE, 2, 2), 3
; GCN-NEXT:    v_interp_p2_f16 v0, v1, attr0.x, v2
; GCN-NEXT:    v_interp_p2_f16 v1, v1, attr0.y, v2
; GCN-NEXT:    s_setpc_b64 s[30:31]
 %mul = fmul float %a, %b
 %fneg = fneg float %mul
 %intrp0 = call half @llvm.amdgcn.interp.p2.f16(float 4.0, float %fneg, i32 0, i32 0, i1 false, i32 0)
 %intrp1 = call half @llvm.amdgcn.interp.p2.f16(float 4.0, float %fneg, i32 1, i32 0, i1 false, i32 0)
 %insert.0 = insertvalue { half, half } poison, half %intrp0, 0
 %insert.1 = insertvalue { half, half } %insert.0, half %intrp1, 1
 ret { half, half } %insert.1
}

; ---------------------------------------------------------------------------
```

```
;
 arithmetic.fence tests
; ------------------------------------------------------------------------------

; FIXME: Legalization/promote is broken
define half @v_fneg_arithmetic_fence_f16(half %a) #0 {
; GCN-LABEL: v_fneg_arithmetic_fence_f16:
; GCN:       ; %bb.0:
; GCN-NEXT:    ;ARITH_FENCE
; GCN-NEXT:    s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT:    v_xor_b32_e32 v0, 0x8000, v0
; GCN-NEXT:    s_setpc_b64 s[30:31]
 %fence = call half @llvm.arithmetic.fence.f16(half %a)
 %fneg = fneg half %fence
 ret half %fneg
}

define half @v_fneg_arithmetic_fence_fmul_f16(half %a, half %b) #0 {
; GCN-LABEL: v_fneg_arithmetic_fence_fmul_f16:
; GCN:       ; %bb.0:
; GCN-NEXT:    s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; GCN-NEXT:    v_mul_f16_e32 v0, v0, v1
; GCN-NEXT:    ;ARITH_FENCE
; GCN-NEXT:    v_xor_b32_e32 v0, 0x8000, v0
; GCN-NEXT:    s_setpc_b64 s[30:31]
 %mul = fmul half %a, %b
 %fence = call half @llvm.arithmetic.fence.f16(half %mul)
 %fneg = fneg half %fence
 ret half
 %fneg
}

declare half @llvm.amdgcn.rcp.f16(half) #1
declare half @llvm.amdgcn.sin.f16(half) #1
declare half @llvm.arithmetic.fence.f16(half) #1
declare float @llvm.amdgcn.interp.p1.f16(float, i32, i32, i1, i32) #0
declare half @llvm.amdgcn.interp.p2.f16(float, float, i32, i32, i1, i32) #0

attributes #0 = { nounwind "denormal-fp-math-f32"="preserve-sign,preserve-sign" }
attributes #1 = { nounwind readnone }
attributes #2 = { nounwind "unsafe-fp-math"="true" }
attributes #3 = { nounwind "no-signed-zeros-fp-math"="true" }
attributes #4 = { nounwind "amdgpu-ieee"="false" "denormal-fp-math-f32"="preserve-sign,preserve-sign" }
;; NOTE: These prefixes are unused and the list is autogenerated. Do not add tests below this line:
; GCN-NSZ: {{.*}}
; GCN-SAFE: {{.*}}
; VI: {{.*}}
; VI-NSZ: {{.*}}
```

; VI-SAFE: {{.*}}
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```
; RUN: opt -passes=consthoist -S -o - %s | FileCheck %s
target datalayout = "e-m:e-p:32:32-i64:64-v128:64:128-a:0:32-n32-S64"
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to ptr
; CHECK-NEXT:  %1 = load volatile i8, ptr %0
; CHECK-NEXT:  %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to ptr
; CHECK-NEXT:  %3 = load volatile i8, ptr %2
; CHECK-NEXT:  %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to ptr
```

```
; CHECK-NEXT:  %5 = load volatile
 i8, ptr %4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to ptr
; CHECK-NEXT:  %7 = load volatile i8, ptr %6
; CHECK-NEXT:  %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to ptr
; CHECK-NEXT:  %9 = load volatile i8, ptr %8
; CHECK-NEXT:  %10 = inttoptr i32 %[[C4]] to ptr
; CHECK-NEXT:  store i8 %9, ptr %10
; CHECK-NEXT:  %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT:  %11 = inttoptr i32 %[[M4]] to ptr
; CHECK-NEXT:  store i8 %7, ptr %11
; CHECK-NEXT:  %12 = inttoptr i32 %[[C3]] to ptr
; CHECK-NEXT:  store i8 %5, ptr %12
; CHECK-NEXT:  %[[M5:const_mat[0-9]?]] = add i32 %[[C3]], 7
; CHECK-NEXT:  %13 = inttoptr i32 %[[M5]] to ptr
; CHECK-NEXT:  store i8 %3, ptr %13
; CHECK-NEXT:  %[[M6:const_mat[0-9]?]] = add i32 %[[C1]], 80
; CHECK-NEXT:  %14 = inttoptr i32 %[[M6]] to ptr
; CHECK-NEXT:  store ptr %14, ptr @goo

@goo = global ptr undef

define void @foo_i8() {
entry:
 %0 = load volatile i8, ptr inttoptr (i32 805874688 to ptr)
 %1 = load volatile
 i8, ptr inttoptr (i32 805874692 to ptr)
 %2 = load volatile i8, ptr inttoptr (i32 805874719 to ptr)
 %3 = load volatile i8, ptr inttoptr (i32 805874720 to ptr)
 %4 = load volatile i8, ptr inttoptr (i32 805874727 to ptr)
 store i8 %4, ptr inttoptr(i32 805873688 to ptr)
 store i8 %3, ptr inttoptr(i32 805873719 to ptr)
 store i8 %2, ptr inttoptr(i32 805873720 to ptr)
 store i8 %1, ptr inttoptr(i32 805873727 to ptr)
 store ptr inttoptr(i32 805874800 to ptr), ptr @goo
 ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const[0-9]?]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to ptr
; CHECK-NEXT: %1 = load volatile i16, ptr %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to ptr
; CHECK-NEXT: %3 = load volatile i16, ptr %2, align 2
```

```
; CHECK-NEXT: %[[M2:const_mat[0-9]?]] = add
 i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to ptr
; CHECK-NEXT: %5 = load volatile i16, ptr %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to ptr
; CHECK-NEXT: %7 = load volatile i16, ptr %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to ptr
; CHECK-NEXT: %9 = load volatile i16, ptr %8, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to ptr
; CHECK-NEXT: %11 = load volatile i16, ptr %10, align 2

define void @foo_i16() {
entry:
 %0 = load volatile i16, ptr inttoptr (i32 805874688 to ptr), align 2
 %1 = load volatile i16, ptr inttoptr (i32 805874692 to ptr), align 2
 %2 = load volatile i16, ptr inttoptr (i32 805874720 to ptr), align 2
 %3 = load volatile i16, ptr inttoptr (i32 805874750 to ptr), align 2
 %4 = load volatile i16, ptr inttoptr (i32 805874752 to ptr), align 2
 %5 = load volatile i16, ptr inttoptr (i32 805874774 to ptr), align
 2
 ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG:  %[[C1:const[0-9]?]] = bitcast i32 805874816 to i32
; CHECK-DAG:  %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to ptr
; CHECK-NEXT:  %1 = load volatile i32, ptr %0, align 4
; CHECK-NEXT:  %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to ptr
; CHECK-NEXT:  %3 = load volatile i32, ptr %2, align 4
; CHECK-NEXT:  %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 124
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to ptr
; CHECK-NEXT:  %5 = load volatile i32, ptr %4, align 4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to ptr
; CHECK-NEXT:  %7 = load volatile i32, ptr %6, align 4
; CHECK-NEXT:  %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 8
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to ptr
; CHECK-NEXT:  %9 = load volatile i32, ptr %8, align 4
; CHECK-NEXT:  %[[M4:const_mat[0-9]?]] = add i32 %[[C1]], 12
; CHECK-NEXT:  %10 = inttoptr
 i32 %[[M4]] to ptr
; CHECK-NEXT:  %11 = load volatile i32, ptr %10, align 4

define void @foo_i32() {
```

```
entry:
 %0 = load volatile i32, ptr inttoptr (i32 805874688 to ptr), align 4
 %1 = load volatile i32, ptr inttoptr (i32 805874692 to ptr), align 4
 %2 = load volatile i32, ptr inttoptr (i32 805874812 to ptr), align 4
 %3 = load volatile i32, ptr inttoptr (i32 805874816 to ptr), align 4
 %4 = load volatile i32, ptr inttoptr (i32 805874824 to ptr), align 4
 %5 = load volatile i32, ptr inttoptr (i32 805874828 to ptr), align 4
 ret void
}
```

==========

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; RUN: opt %s -passes=inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" {
 ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
 ret void
}

```
define internal void @innerNoAttribute() {
 ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
 call void @innerLarge()
 ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
 call void @innerLarge()
 ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
 call void @innerSmall()
 ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
 call void @innerNoAttribute()
 ret void
}

; CHECK: define void @outerNoAttribute()
 {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -passes=scalarize-masked-mem-intrin -S < %s | FileCheck %s

; Testing that masked scatters operating on scalable vectors that are
; packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv4i32(
; CHECK: call void @llvm.masked.scatter.nxv4i32
define void @masked_scatter_nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x ptr> %ptrs, <vscale x 4 x i1>
%masks) {
 call void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x ptr> %ptrs, i32 0, <vscale x 4 x
i1> %masks)
 ret void
}
```

```
; Testing that masked scatters operating on scalable vectors of FP
; data that is packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv2f64(
; CHECK: call void @llvm.masked.scatter.nxv2f64
define void @masked_scatter_nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x ptr> %ptrs, <vscale x 2 x i1>
%masks) {
 call void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x ptr> %ptrs,
 i32 0, <vscale x 2 x i1> %masks)
 ret void
}

; Testing that masked scatters operating on scalable vectors of FP
; data that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv2f16(
; CHECK: call void @llvm.masked.scatter.nxv2f16
define void @masked_scatter_nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x ptr> %ptrs, <vscale x 2 x i1>
%masks) {
 call void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x ptr> %ptrs, i32 0, <vscale x 2 x
i1> %masks)
 ret void
}

; Testing that masked scatters operating on 64-bit fixed vectors are
; scalarized because NEON doesn't have support for masked scatter
; instructions.

; CHECK-LABEL: @masked_scatter_v2f32(
; CHECK-NOT: @llvm.masked.scatter.v2f32(
define void @masked_scatter_v2f32(<2 x float> %data, <2 x ptr> %ptrs, <2 x i1> %masks) {
 call void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x ptr> %ptrs, i32 0, <2 x i1> %masks)
 ret void
}

; Testing that masked scatters operating on 128-bit
 fixed vectors are
; scalarized because NEON doesn't have support for masked scatter
; instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_scatter_v4i32(
; CHECK-NOT: @llvm.masked.scatter.v4i32(
define void @masked_scatter_v4i32(<4 x i32> %data, <4 x ptr> %ptrs, <4 x i1> %masks) {
 call void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x ptr> %ptrs, i32 0, <4 x i1> %masks)
 ret void
}
```

```
declare void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x ptr> %ptrs, i32 %align,
<vscale x 4 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x ptr> %ptrs, i32 %align,
<vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x ptr> %ptrs, i32 %align,
<vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x ptr> %ptrs, i32 %align, <2 x i1> %masks)
declare void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x
 ptr> %ptrs, i32 %align, <4 x i1> %masks)
; RUN: opt < %s -passes=argpromotion -S | FileCheck %s

; CHECK-LABEL: define i32 @foo() #0 {
; CHECK-NEXT:      %.val = load <32 x half>, ptr poison, align 4
; CHECK-NEXT:      call void @bar(<32 x half> %.val)
; CHECK-NEXT:      ret i32 0
; CHECK-NEXT:    }

; CHECK-LABEL: define internal void @bar(<32 x half> %.0.val) #0 {
; CHECK-NEXT:      ret void
; CHECK-NEXT:    }

; CHECK:    attributes #0 = { uwtable "min-legal-vector-width"="512" }

define i32 @foo() #0 {
 call void @bar(ptr poison)
 ret i32 0
}

define internal void @bar(ptr) #0 {
 %2 = load <32 x half>, ptr %0, align 4
 ret void
}

attributes #0 = { uwtable "min-legal-vector-width"="0" }
; RUN: llc -mtriple=hexagon -hexagon-hvx-widen=32 < %s | FileCheck %s

; Truncating a type-to-be-widenened to a legal type (v8i8).
; Check that this compiles successfully.
; CHECK-LABEL: f0:
; CHECK: dealloc_return

target datalayout = "e-m:e-p:32:32:32-a:0-n16:32-i64:64:64-i32:32:32-i16:16:16-i1:8:8-f32:32:32-f64:64:64-
v32:32:32-v64:64:64-v512:512:512-v1024:1024:1024-v2048:2048:2048"
target triple = "hexagon"

define dllexport void @f0(ptr %a0) local_unnamed_addr #0 {
b0:
 %v0 = load i8, ptr undef, align 1
```

```
 %v1 = zext i8 %v0 to i16
 %v2 = add i16 0, %v1
 %v3 = icmp sgt i16 %v2, 1
 %v4 = select i1 %v3, i16 %v2, i16 1
 %v5 = udiv i16 -32768, %v4
 %v6 = zext i16 %v5 to i32
 %v7 = insertelement <8 x i32> undef, i32 %v6, i32 0
 %v8 = shufflevector <8 x i32> %v7, <8 x i32> undef, <8 x i32> zeroinitializer
 %v9 = load <8 x i16>, ptr undef, align 2
 %v10 = sext <8 x i16> %v9 to <8 x i32>
 %v11 = mul nsw <8 x i32> %v8, %v10
 %v12 = add nsw <8 x i32> %v11, <i32 16384, i32 16384, i32
 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384>
 %v13 = lshr <8 x i32> %v12, <i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15>
 %v14 = trunc <8 x i32> %v13 to <8 x i8>
 %v15 = getelementptr inbounds i8, ptr %a0, i32 undef
 store <8 x i8> %v14, ptr %v15, align 1
 ret void
}

attributes #0 = { "target-features"="+hvx,+hvx-length128b" }
//===-- ObjectContainerBSDArchive.h -----------------------------*- C++ -*-===//
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//
//===----------------------------------------------------------------------===//

#ifndef
LLDB_SOURCE_PLUGINS_OBJECTCONTAINER_BSD_ARCHIVE_OBJECTCONTAINERBSDARCHIVE_H
#define
LLDB_SOURCE_PLUGINS_OBJECTCONTAINER_BSD_ARCHIVE_OBJECTCONTAINERBSDARCHIVE_H

#include "lldb/Core/UniqueCStringMap.h"
#include "lldb/Symbol/ObjectContainer.h"
#include "lldb/Utility/ArchSpec.h"
#include "lldb/Utility/ConstString.h"
#include "lldb/Utility/FileSpec.h"

#include "llvm/Object/Archive.h"
#include "llvm/Support/Chrono.h"
#include "llvm/Support/Path.h"

#include <map>
#include <memory>
#include <mutex>
```

```
enum class ArchiveType { Invalid, Archive, ThinArchive };

class ObjectContainerBSDArchive : public lldb_private::ObjectContainer
 {
public:
 ObjectContainerBSDArchive(const lldb::ModuleSP &module_sp,
                           lldb::DataBufferSP &data_sp,
                           lldb::offset_t data_offset,
                           const lldb_private::FileSpec *file,
                           lldb::offset_t offset, lldb::offset_t length,
                           ArchiveType archive_type);

 ~ObjectContainerBSDArchive() override;

 // Static Functions
 static void Initialize();

 static void Terminate();

 static llvm::StringRef GetPluginNameStatic() { return "bsd-archive"; }

 static llvm::StringRef GetPluginDescriptionStatic() {
   return "BSD Archive object container reader.";
 }

 static lldb_private::ObjectContainer *
 CreateInstance(const lldb::ModuleSP &module_sp, lldb::DataBufferSP &data_sp,
                lldb::offset_t data_offset, const lldb_private::FileSpec *file,
                lldb::offset_t offset, lldb::offset_t length);

 static size_t GetModuleSpecifications(const
 lldb_private::FileSpec &file,
                                       lldb::DataBufferSP &data_sp,
                                       lldb::offset_t data_offset,
                                       lldb::offset_t file_offset,
                                       lldb::offset_t length,
                                       lldb_private::ModuleSpecList &specs);

 static ArchiveType MagicBytesMatch(const lldb_private::DataExtractor &data);

 // Member Functions
 bool ParseHeader() override;

 size_t GetNumObjects() const override {
   if (m_archive_sp)
     return m_archive_sp->GetNumObjects();
   return 0;
 }
```

```
 lldb::ObjectFileSP GetObjectFile(const lldb_private::FileSpec *file) override;

 // PluginInterface protocol
 llvm::StringRef GetPluginName() override { return GetPluginNameStatic(); }

protected:
 struct Object {
  Object();

  void Clear();

  lldb::offset_t ExtractFromThin(const lldb_private::DataExtractor &data,

     lldb::offset_t offset,
                        llvm::StringRef stringTable);

  lldb::offset_t Extract(const lldb_private::DataExtractor &data,
                 lldb::offset_t offset);
  /// Object name in the archive.
  lldb_private::ConstString ar_name;

  /// Object modification time in the archive.
  uint32_t modification_time = 0;

  /// Object size in bytes in the archive.
  uint32_t size = 0;

  /// File offset in bytes from the beginning of the file of the object data.
  lldb::offset_t file_offset = 0;

  /// Length of the object data.
  lldb::offset_t file_size = 0;

  void Dump() const;
 };

 class Archive {
 public:
  typedef std::shared_ptr<Archive> shared_ptr;
  typedef std::multimap<lldb_private::FileSpec, shared_ptr> Map;

  Archive(const lldb_private::ArchSpec &arch,
        const llvm::sys::TimePoint<> &mod_time, lldb::offset_t file_offset,
        lldb_private::DataExtractor &data, ArchiveType archive_type);

   ~Archive();
```

```
  static Map &GetArchiveCache();

  static std::recursive_mutex &GetArchiveCacheMutex();

  static Archive::shared_ptr FindCachedArchive(
      const lldb_private::FileSpec &file, const lldb_private::ArchSpec &arch,
      const llvm::sys::TimePoint<> &mod_time, lldb::offset_t file_offset);

  static Archive::shared_ptr ParseAndCacheArchiveForFile(
      const lldb_private::FileSpec &file, const lldb_private::ArchSpec &arch,
      const llvm::sys::TimePoint<> &mod_time, lldb::offset_t file_offset,
      lldb_private::DataExtractor &data, ArchiveType archive_type);

  size_t GetNumObjects() const { return m_objects.size(); }

  const Object *GetObjectAtIndex(size_t idx) {
    if (idx < m_objects.size())
      return &m_objects[idx];
    return nullptr;
  }

  size_t ParseObjects();

  Object *FindObject(lldb_private::ConstString object_name,
                     const llvm::sys::TimePoint<> &object_mod_time);

  lldb::offset_t
GetFileOffset() const { return m_file_offset; }

  const llvm::sys::TimePoint<> &GetModificationTime() {
    return m_modification_time;
  }

  const lldb_private::ArchSpec &GetArchitecture() const { return m_arch; }

  void SetArchitecture(const lldb_private::ArchSpec &arch) { m_arch = arch; }

  bool HasNoExternalReferences() const;

  lldb_private::DataExtractor &GetData() { return m_data; }

  ArchiveType GetArchiveType() { return m_archive_type; }

protected:
  typedef lldb_private::UniqueCStringMap<uint32_t> ObjectNameToIndexMap;
  // Member Variables
  lldb_private::ArchSpec m_arch;
  llvm::sys::TimePoint<> m_modification_time;
```

```
  lldb::offset_t m_file_offset;
  std::vector<Object> m_objects;
  ObjectNameToIndexMap m_object_name_to_index_map;
  lldb_private::DataExtractor m_data; ///< The data for this object container
                                      ///so we don't lose data if the .a files
                                      ///gets
 modified
  ArchiveType m_archive_type;
 };

 void SetArchive(Archive::shared_ptr &archive_sp);

 Archive::shared_ptr m_archive_sp;

 ArchiveType m_archive_type;
};

#endif //
LLDB_SOURCE_PLUGINS_OBJECTCONTAINER_BSD_ARCHIVE_OBJECTCONTAINERBSDARCHIVE_H
! RUN: %python %S/../test_errors.py %s %flang -fopenmp -Werror -pedantic
! OpenMP Version 5.0
! 2.19.4.4 firstprivate Clause
! 2.19.4.5 lastprivate Clause
! 2.19.6.1 copyin Clause
! 2.19.6.2 copyprivate Clause
! If the list item is a polymorphic variable with the allocatable attribute,
! the behavior is unspecified.

subroutine firstprivate()
 class(*), allocatable, save :: x

 !PORTABILITY: If a polymorphic variable with allocatable attribute 'x' is in FIRSTPRIVATE clause, the behavior
is unspecified
 !$omp parallel firstprivate(x)
  call sub()
 !$omp end parallel

end

subroutine lastprivate()
 class(*), allocatable, save :: x

 !PORTABILITY: If a polymorphic variable with allocatable attribute 'x' is in LASTPRIVATE clause, the behavior
is unspecified
 !$omp do lastprivate(x)
 do i = 1, 10
  call sub()
 enddo
```

```
 !$omp end do

end

subroutine copyin()
 class(*), allocatable, save :: x
 !$omp threadprivate(x)

 !PORTABILITY: If a polymorphic variable with allocatable attribute
 'x' is in COPYIN clause, the behavior is unspecified
 !$omp parallel copyin(x)
   call sub()
 !$omp end parallel

end

subroutine copyprivate()
 class(*), allocatable, save :: x
 !$omp threadprivate(x)

 !$omp single
   call sub()
 !PORTABILITY: If a polymorphic variable with allocatable attribute 'x' is in COPYPRIVATE clause, the behavior
is unspecified
 !$omp end single copyprivate(x)

end
```

```
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THE SOFTWARE.
static_library("BSD-Archive") {
 output_name = "lldbPluginObjectContainerBSDArchive"
 configs += ["//llvm/utils/gn/build:lldb_code"]
 deps = [
   "//lldb/source/Core",
   "//lldb/source/Host",
   "//lldb/source/Symbol",
   "//llvm/lib/Support",
 ]
 sources = ["ObjectContainerBSDArchive.cpp"]
}
; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -passes=scalarize-masked-mem-intrin -S < %s | FileCheck %s

; Testing that masked gathers operating on scalable vectors that are
; packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv4i32(
; CHECK: call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32
define <vscale x 4 x i32> @masked_gather_nxv4i32(<vscale x 4 x ptr> %ld, <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru) {
 %res = call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x ptr> %ld, i32 0, <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru)
 ret <vscale x 4 x i32> %res
}

; Testing that masked gathers operating on scalable vectors of FP data
; that is packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv2f64(
; CHECK: call <vscale x 2 x double> @llvm.masked.gather.nxv2f64
define <vscale x 2 x double> @masked_gather_nxv2f64(<vscale x 2 x ptr> %ld, <vscale x 2 x i1> %masks, <vscale x 2 x double> %passthru)

```
{
 %res = call <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x ptr> %ld, i32 0, <vscale x 2 x i1>
%masks, <vscale x 2 x double> %passthru)
 ret <vscale x 2 x double> %res
}

; Testing that masked gathers operating on scalable vectors of FP data
; that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv2f16(
; CHECK: call <vscale x 2 x half> @llvm.masked.gather.nxv2f16
define <vscale x 2 x half> @masked_gather_nxv2f16(<vscale x 2 x ptr> %ld, <vscale x 2 x i1> %masks, <vscale x
2 x half> %passthru) {
 %res = call <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x ptr> %ld, i32 0, <vscale x 2 x i1>
%masks, <vscale x 2 x half> %passthru)
 ret <vscale x 2 x half> %res
}

; Testing that masked gathers operating on 64-bit fixed vectors are
; scalarized because NEON doesn't have support for masked gather
; instructions.

; CHECK-LABEL: @masked_gather_v2f32(
; CHECK-NOT: @llvm.masked.gather.v2f32(
define <2 x float> @masked_gather_v2f32(<2
 x ptr> %ld, <2 x i1> %masks, <2 x float> %passthru) {
 %res = call <2 x float> @llvm.masked.gather.v2f32(<2 x ptr> %ld, i32 0, <2 x i1> %masks, <2 x float> %passthru)
 ret <2 x float> %res
}

; Testing that masked gathers operating on 128-bit fixed vectors are
; scalarized because NEON doesn't have support for masked gather
; instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_gather_v4i32(
; CHECK-NOT: @llvm.masked.gather.v4i32(
define <4 x i32> @masked_gather_v4i32(<4 x ptr> %ld, <4 x i1> %masks, <4 x i32> %passthru) {
 %res = call <4 x i32> @llvm.masked.gather.v4i32(<4 x ptr> %ld, i32 0, <4 x i1> %masks, <4 x i32> %passthru)
 ret <4 x i32> %res
}

declare <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x ptr> %ptrs, i32 %align, <vscale x 4 x i1>
%masks, <vscale x 4 x i32> %passthru)
declare <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x ptr> %ptrs, i32 %align, <vscale x 2 x
i1> %masks, <vscale x 2 x double>
 %passthru)
declare <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x ptr> %ptrs, i32 %align, <vscale x 2 x i1>
%masks, <vscale x 2 x half> %passthru)
```

```
declare <2 x float> @llvm.masked.gather.v2f32(<2 x ptr> %ptrs, i32 %align, <2 x i1> %masks, <2 x float>
%passthru)
declare <4 x i32> @llvm.masked.gather.v4i32(<4 x ptr> %ptrs, i32 %align, <4 x i1> %masks, <4 x i32> %passthru)
# RUN: llc -O0 -mtriple=m68k -start-after=prologepilog -verify-machineinstrs %s -o - | FileCheck %s

name: is-pcrel-register-operand-legal
body:             |
 bb.0.entry:
   ; CHECK: move.l  (0,%pc,%a0), (%a1)
   ; CHECK: move.l  (%a0), (0,%pc,%a1)

   MOV32jk $a1,  0, $a0, implicit-def $ccr
   MOV32kj 0,  $a1, $a0, implicit-def $ccr
```

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  which apply to that software, or
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  file.
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s
--check-prefixes=CHECK,CHECK-SKX
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi |
FileCheck %s --check-prefixes=CHECK,CHECK-SKX,CHECK-SKX-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for
vpmaddwd+vpaddd
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-
prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --
check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --
check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=cannonlake | FileCheck %s --check-
prefixes=CHECK,CHECK-VBMI,CHECK-VBMI1
;
 RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --
check-prefixes=CHECK,CHECK-VBMI,CHECK-GFNI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --
check-prefixes=CHECK,CHECK-VBMI,CHECK-GFNI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-
prefixes=CHECK,CHECK-VBMI,CHECK-GFNI

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the
legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.

define dso_local void @add256(ptr %a, ptr %b, ptr %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0

```
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpaddd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vpaddd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vmovdqa
 %ymm0, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %d = load <16 x i32>, ptr %a
 %e = load <16 x i32>, ptr %b
 %f = add <16 x i32> %d, %e
 store <16 x i32> %f, ptr %c
 ret void
}

define dso_local void @add512(ptr %a, ptr %b, ptr %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpaddd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %d = load <16 x i32>, ptr %a
 %e = load <16 x i32>, ptr %b
 %f = add <16 x i32> %d, %e
 store <16 x i32> %f, ptr %c
 ret void
}

define dso_local void @avg_v64i8_256(ptr %a, ptr %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpavgb (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vpavgb 32(%rsi), %ymm1, %ymm1
;
 CHECK-NEXT:    vmovdqu %ymm1, (%rax)
; CHECK-NEXT:    vmovdqu %ymm0, (%rax)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %1 = load <64 x i8>, ptr %a
 %2 = load <64 x i8>, ptr %b
 %3 = zext <64 x i8> %1 to <64 x i32>
 %4 = zext <64 x i8> %2 to <64 x i32>
 %5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
```

```
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
 %6 = add nuw nsw <64 x i32> %5, %4
 %7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
 i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1>
 %8 = trunc <64 x i32> %7 to <64 x i8>
 store <64 x i8> %8, ptr undef, align 4
 ret void
}


define dso_local void @avg_v64i8_512(ptr %a, ptr %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpavgb (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %1 = load <64 x i8>, ptr %a
 %2 = load <64 x i8>, ptr %b
 %3 = zext <64 x i8> %1 to <64 x i32>
 %4 = zext <64 x i8> %2 to <64 x i32>
 %5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
 i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1>
 %6 = add nuw nsw <64 x i32> %5, %4
 %7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
 %8 = trunc <64 x i32> %7 to <64 x i8>
 store <64 x i8> %8, ptr undef, align 4
 ret void
}

define dso_local void @pmaddwd_32_256(ptr %APtr, ptr %BPtr, ptr %CPtr) "min-legal-vector-width"="256"
 {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpmaddwd 32(%rsi), %ymm1, %ymm1
```

```
; CHECK-NEXT:    vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
  %A = load <32 x i16>, ptr %APtr
  %B = load <32 x i16>, ptr %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret,
 ptr %CPtr
  ret void
}

define dso_local void @pmaddwd_32_512(ptr %APtr, ptr %BPtr, ptr %CPtr) "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
  %A = load <32 x i16>, ptr %APtr
  %B = load <32 x i16>, ptr %BPtr
  %a = sext <32 x i16> %A to <32 x i32>
  %b = sext <32 x i16> %B to <32 x i32>
  %m = mul nsw <32 x i32> %a, %b
  %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
  %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32
13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
  %ret = add <16 x i32> %odd, %even
  store <16 x i32> %ret, ptr
 %CPtr
  ret void
}

define dso_local void @psubus_64i8_max_256(ptr %xptr, ptr %yptr, ptr %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
```

```
; CHECK-NEXT:    vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT:    vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <64 x i8>, ptr %xptr
 %y = load <64 x i8>, ptr %yptr
 %cmp = icmp ult <64 x i8> %x, %y
 %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
 %res = sub <64 x i8> %max, %y
 store <64 x i8> %res, ptr %zptr
 ret void
}

define dso_local void @psubus_64i8_max_512(ptr %xptr, ptr %yptr, ptr %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT:    vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT:
   vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <64 x i8>, ptr %xptr
 %y = load <64 x i8>, ptr %yptr
 %cmp = icmp ult <64 x i8> %x, %y
 %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
 %res = sub <64 x i8> %max, %y
 store <64 x i8> %res, ptr %zptr
 ret void
}

define dso_local i32 @_Z9test_charPcS_i_256(ptr nocapture readonly, ptr nocapture readonly, i32) "min-legal-
vector-width"="256" {
; CHECK-SKX-LABEL: _Z9test_charPcS_i_256:
; CHECK-SKX:       # %bb.0: # %entry
; CHECK-SKX-NEXT:    movl %edx, %eax
; CHECK-SKX-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-SKX-NEXT:    xorl %ecx, %ecx
; CHECK-SKX-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-SKX-NEXT:    vpxor %xmm2, %xmm2, %xmm2
; CHECK-SKX-NEXT:    .p2align 4
; CHECK-SKX-NEXT:  .LBB8_1: # %vector.body
; CHECK-SKX-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-SKX-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm3
; CHECK-SKX-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm4
; CHECK-SKX-NEXT:
```

```
   vpmovsxbw 16(%rsi,%rcx), %ymm5
; CHECK-SKX-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-SKX-NEXT:    vpaddd %ymm2, %ymm3, %ymm2
; CHECK-SKX-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm3
; CHECK-SKX-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-SKX-NEXT:    vpaddd %ymm1, %ymm3, %ymm1
; CHECK-SKX-NEXT:    addq $32, %rcx
; CHECK-SKX-NEXT:    cmpq %rcx, %rax
; CHECK-SKX-NEXT:    jne .LBB8_1
; CHECK-SKX-NEXT:  # %bb.2: # %middle.block
; CHECK-SKX-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
; CHECK-SKX-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
; CHECK-SKX-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-SKX-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-SKX-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-SKX-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:    vpsrlq $32, %xmm0, %xmm1
; CHECK-SKX-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:    vmovd %xmm0, %eax
; CHECK-SKX-NEXT:    vzeroupper
; CHECK-SKX-NEXT:    retq
;
; CHECK-AVX512-LABEL: _Z9test_charPcS_i_256:
;
 CHECK-AVX512:       # %bb.0: # %entry
; CHECK-AVX512-NEXT:    movl %edx, %eax
; CHECK-AVX512-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    xorl %ecx, %ecx
; CHECK-AVX512-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-AVX512-NEXT:    vpxor %xmm2, %xmm2, %xmm2
; CHECK-AVX512-NEXT:    .p2align 4
; CHECK-AVX512-NEXT:  .LBB8_1: # %vector.body
; CHECK-AVX512-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-AVX512-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm3
; CHECK-AVX512-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm4
; CHECK-AVX512-NEXT:    vpmovsxbw 16(%rsi,%rcx), %ymm5
; CHECK-AVX512-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-AVX512-NEXT:    vpaddd %ymm2, %ymm3, %ymm2
; CHECK-AVX512-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm3
; CHECK-AVX512-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-AVX512-NEXT:    vpaddd %ymm1, %ymm3, %ymm1
; CHECK-AVX512-NEXT:    addq $32, %rcx
; CHECK-AVX512-NEXT:    cmpq %rcx, %rax
; CHECK-AVX512-NEXT:    jne .LBB8_1
; CHECK-AVX512-NEXT:  # %bb.2:
 # %middle.block
; CHECK-AVX512-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
```

```
; CHECK-AVX512-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
; CHECK-AVX512-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-AVX512-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-AVX512-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    vpsrlq $32, %xmm0, %xmm1
; CHECK-AVX512-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    vmovd %xmm0, %eax
; CHECK-AVX512-NEXT:    vzeroupper
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: _Z9test_charPcS_i_256:
; CHECK-VBMI:       # %bb.0: # %entry
; CHECK-VBMI-NEXT:    movl %edx, %eax
; CHECK-VBMI-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    xorl %ecx, %ecx
; CHECK-VBMI-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-VBMI-NEXT:    vpxor %xmm2, %xmm2, %xmm2
; CHECK-VBMI-NEXT:    .p2align 4
; CHECK-VBMI-NEXT:  .LBB8_1: # %vector.body
; CHECK-VBMI-NEXT:    # =>This
 Inner Loop Header: Depth=1
; CHECK-VBMI-NEXT:    vpmovsxbw 16(%rdi,%rcx), %ymm3
; CHECK-VBMI-NEXT:    vpmovsxbw (%rdi,%rcx), %ymm4
; CHECK-VBMI-NEXT:    vpmovsxbw 16(%rsi,%rcx), %ymm5
; CHECK-VBMI-NEXT:    vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-VBMI-NEXT:    vpaddd %ymm2, %ymm3, %ymm2
; CHECK-VBMI-NEXT:    vpmovsxbw (%rsi,%rcx), %ymm3
; CHECK-VBMI-NEXT:    vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-VBMI-NEXT:    vpaddd %ymm1, %ymm3, %ymm1
; CHECK-VBMI-NEXT:    addq $32, %rcx
; CHECK-VBMI-NEXT:    cmpq %rcx, %rax
; CHECK-VBMI-NEXT:    jne .LBB8_1
; CHECK-VBMI-NEXT:  # %bb.2: # %middle.block
; CHECK-VBMI-NEXT:    vpaddd %ymm0, %ymm1, %ymm1
; CHECK-VBMI-NEXT:    vpaddd %ymm0, %ymm2, %ymm0
; CHECK-VBMI-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-VBMI-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-VBMI-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-VBMI-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
;
 CHECK-VBMI-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    vmovd %xmm0, %eax
; CHECK-VBMI-NEXT:    vzeroupper
; CHECK-VBMI-NEXT:    retq
```

```
entry:
 %3 = zext i32 %2 to i64
 br label %vector.body

vector.body:
 %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
 %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
 %4 = getelementptr inbounds i8, ptr %0, i64 %index
 %5 = bitcast ptr %4 to ptr
 %wide.load = load <32 x i8>, ptr %5, align 1
 %6 = sext <32 x i8> %wide.load to <32 x i32>
 %7 = getelementptr inbounds i8, ptr %1, i64 %index
 %8 = bitcast ptr %7 to ptr
 %wide.load14 = load <32 x i8>, ptr %8, align 1
 %9 = sext <32 x i8> %wide.load14 to <32 x i32>
 %10 = mul nsw <32 x i32> %9, %6
 %11 = add nsw <32 x i32> %10, %vec.phi
 %index.next = add i64 %index, 32
 %12 = icmp eq i64 %index.next, %3
 br i1 %12, label %middle.block, label %vector.body

middle.block:
 %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32>
 undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32
28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
 %rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
 %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef>
 %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
 %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
 %rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
```

```
 %13 = extractelement <32 x i32> %bin.rdx20, i32 0
 ret i32 %13
}

define dso_local i32 @_Z9test_charPcS_i_512(ptr nocapture readonly, ptr nocapture readonly, i32) "min-legal-vector-width"="512" {
; CHECK-SKX-LABEL: _Z9test_charPcS_i_512:
; CHECK-SKX:       # %bb.0: # %entry
; CHECK-SKX-NEXT:    movl %edx, %eax
; CHECK-SKX-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-SKX-NEXT:    xorl %ecx, %ecx
; CHECK-SKX-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-SKX-NEXT:    .p2align 4
; CHECK-SKX-NEXT:  .LBB9_1: # %vector.body
; CHECK-SKX-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-SKX-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-SKX-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-SKX-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-SKX-NEXT:
    vpaddd %zmm1, %zmm2, %zmm1
; CHECK-SKX-NEXT:    addq $32, %rcx
; CHECK-SKX-NEXT:    cmpq %rcx, %rax
; CHECK-SKX-NEXT:    jne .LBB9_1
; CHECK-SKX-NEXT:  # %bb.2: # %middle.block
; CHECK-SKX-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
; CHECK-SKX-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-SKX-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-SKX-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-SKX-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-SKX-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:    vpsrlq $32, %xmm0, %xmm1
; CHECK-SKX-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:    vmovd %xmm0, %eax
; CHECK-SKX-NEXT:    vzeroupper
; CHECK-SKX-NEXT:    retq
;
; CHECK-AVX512-LABEL: _Z9test_charPcS_i_512:
; CHECK-AVX512:       # %bb.0: # %entry
; CHECK-AVX512-NEXT:    movl %edx, %eax
; CHECK-AVX512-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    xorl %ecx, %ecx
; CHECK-AVX512-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-AVX512-NEXT:
    .p2align 4
; CHECK-AVX512-NEXT:  .LBB9_1: # %vector.body
; CHECK-AVX512-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-AVX512-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
```

```
; CHECK-AVX512-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-AVX512-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
; CHECK-AVX512-NEXT:    addq $32, %rcx
; CHECK-AVX512-NEXT:    cmpq %rcx, %rax
; CHECK-AVX512-NEXT:    jne .LBB9_1
; CHECK-AVX512-NEXT:  # %bb.2: # %middle.block
; CHECK-AVX512-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
; CHECK-AVX512-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-AVX512-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-AVX512-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-AVX512-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-AVX512-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    vpsrlq $32, %xmm0, %xmm1
; CHECK-AVX512-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT:
   vmovd %xmm0, %eax
; CHECK-AVX512-NEXT:    vzeroupper
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: _Z9test_charPcS_i_512:
; CHECK-VBMI:       # %bb.0: # %entry
; CHECK-VBMI-NEXT:    movl %edx, %eax
; CHECK-VBMI-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    xorl %ecx, %ecx
; CHECK-VBMI-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-VBMI-NEXT:    .p2align 4
; CHECK-VBMI-NEXT:  .LBB9_1: # %vector.body
; CHECK-VBMI-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-VBMI-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-VBMI-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-VBMI-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
; CHECK-VBMI-NEXT:    addq $32, %rcx
; CHECK-VBMI-NEXT:    cmpq %rcx, %rax
; CHECK-VBMI-NEXT:    jne .LBB9_1
; CHECK-VBMI-NEXT:  # %bb.2: # %middle.block
; CHECK-VBMI-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
; CHECK-VBMI-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-VBMI-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT:
   vextracti128 $1, %ymm0, %xmm1
; CHECK-VBMI-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-VBMI-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
; CHECK-VBMI-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
```

```
; CHECK-VBMI-NEXT:    vmovd %xmm0, %eax
; CHECK-VBMI-NEXT:    vzeroupper
; CHECK-VBMI-NEXT:    retq
entry:
 %3 = zext i32 %2 to i64
 br label %vector.body

vector.body:
 %index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
 %vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
 %4 = getelementptr inbounds i8, ptr %0, i64 %index
 %5 = bitcast ptr %4 to ptr
 %wide.load = load <32 x i8>, ptr %5, align 1
 %6 = sext <32 x i8> %wide.load to <32 x i32>
 %7 = getelementptr inbounds i8, ptr %1, i64 %index
 %8 = bitcast ptr %7 to ptr
 %wide.load14 = load <32 x i8>, ptr %8, align 1
 %9 = sext <32 x i8> %wide.load14 to <32 x i32>
 %10 = mul nsw <32 x i32>
 %9, %6
 %11 = add nsw <32 x i32> %10, %vec.phi
 %index.next = add i64 %index, 32
 %12 = icmp eq i64 %index.next, %3
 br i1 %12, label %middle.block, label %vector.body

middle.block:
 %rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20,
i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef>
 %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
 %rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32
12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32
 undef, i32 undef>
 %bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
 %rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
 %rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx18 = add <32 x i32> %bin.rdx32,
```

```
 %rdx.shuf17
 %rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32
undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef,
i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
 %13 = extractelement <32 x i32> %bin.rdx20, i32 0
 ret i32 %13
}

@a = dso_local global [1024 x i8] zeroinitializer, align 16
@b = dso_local global [1024 x i8] zeroinitializer, align 16

define dso_local i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-SKX-LABEL: sad_16i8_256:
; CHECK-SKX:       # %bb.0: # %entry
; CHECK-SKX-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-SKX-NEXT:    movq $-1024, %rax # imm = 0xFC00
; CHECK-SKX-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-SKX-NEXT:
    .p2align 4
; CHECK-SKX-NEXT:  .LBB10_1: # %vector.body
; CHECK-SKX-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-SKX-NEXT:    vmovdqu a+1024(%rax), %xmm2
; CHECK-SKX-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-SKX-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
; CHECK-SKX-NEXT:    addq $4, %rax
; CHECK-SKX-NEXT:    jne .LBB10_1
; CHECK-SKX-NEXT:  # %bb.2: # %middle.block
; CHECK-SKX-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-SKX-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-SKX-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-SKX-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:    vpsrlq $32, %xmm0, %xmm1
; CHECK-SKX-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:    vmovd %xmm0, %eax
; CHECK-SKX-NEXT:    vzeroupper
; CHECK-SKX-NEXT:    retq
;
; CHECK-AVX512-LABEL: sad_16i8_256:
; CHECK-AVX512:       # %bb.0: # %entry
; CHECK-AVX512-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    movq $-1024, %rax # imm
 = 0xFC00
; CHECK-AVX512-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-AVX512-NEXT:    .p2align 4
; CHECK-AVX512-NEXT:  .LBB10_1: # %vector.body
```

```
; CHECK-AVX512-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-AVX512-NEXT:    vmovdqu a+1024(%rax), %xmm2
; CHECK-AVX512-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-AVX512-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
; CHECK-AVX512-NEXT:    addq $4, %rax
; CHECK-AVX512-NEXT:    jne .LBB10_1
; CHECK-AVX512-NEXT:  # %bb.2: # %middle.block
; CHECK-AVX512-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-AVX512-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-AVX512-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    vpsrlq $32, %xmm0, %xmm1
; CHECK-AVX512-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    vmovd %xmm0, %eax
; CHECK-AVX512-NEXT:    vzeroupper
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: sad_16i8_256:
;
 CHECK-VBMI:       # %bb.0: # %entry
; CHECK-VBMI-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    movq $-1024, %rax # imm = 0xFC00
; CHECK-VBMI-NEXT:    vpxor %xmm1, %xmm1, %xmm1
; CHECK-VBMI-NEXT:    .p2align 4
; CHECK-VBMI-NEXT:  .LBB10_1: # %vector.body
; CHECK-VBMI-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-VBMI-NEXT:    vmovdqu a+1024(%rax), %xmm2
; CHECK-VBMI-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-VBMI-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
; CHECK-VBMI-NEXT:    addq $4, %rax
; CHECK-VBMI-NEXT:    jne .LBB10_1
; CHECK-VBMI-NEXT:  # %bb.2: # %middle.block
; CHECK-VBMI-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
; CHECK-VBMI-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-VBMI-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-VBMI-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
; CHECK-VBMI-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    vmovd %xmm0, %eax
;
 CHECK-VBMI-NEXT:    vzeroupper
; CHECK-VBMI-NEXT:    retq
entry:
 br label %vector.body

vector.body:
```

```
 %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
 %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
 %0 = getelementptr inbounds [1024 x i8], ptr @a, i64 0, i64 %index
 %1 = bitcast ptr %0 to ptr
 %wide.load = load <16 x i8>, ptr %1, align 4
 %2 = zext <16 x i8> %wide.load to <16 x i32>
 %3 = getelementptr inbounds [1024 x i8], ptr @b, i64 0, i64 %index
 %4 = bitcast ptr %3 to ptr
 %wide.load1 = load <16 x i8>, ptr %4, align 4
 %5 = zext <16 x i8> %wide.load1 to <16 x i32>
 %6 = sub nsw <16 x i32> %2, %5
 %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
 %8 = sub nsw <16 x i32> zeroinitializer, %6
 %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
 %10 = add nsw <16 x i32> %9, %vec.phi
 %index.next = add i64 %index,
 4
 %11 = icmp eq i64 %index.next, 1024
 br i1 %11, label %middle.block, label %vector.body

middle.block:
 %rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx = add <16 x i32> %10, %rdx.shuf
 %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
 %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
 %rdx.shuf4 = shufflevector
 <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
 %12 = extractelement <16 x i32> %bin.rdx4, i32 0
 ret i32 %12
}

define dso_local i32 @sad_16i8_512() "min-legal-vector-width"="512" {
; CHECK-SKX-LABEL: sad_16i8_512:
; CHECK-SKX:       # %bb.0: # %entry
; CHECK-SKX-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-SKX-NEXT:    movq $-1024, %rax # imm = 0xFC00
; CHECK-SKX-NEXT:    .p2align 4
; CHECK-SKX-NEXT:  .LBB11_1: # %vector.body
```

```
; CHECK-SKX-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-SKX-NEXT:    vmovdqu a+1024(%rax), %xmm1
; CHECK-SKX-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-SKX-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
; CHECK-SKX-NEXT:    addq $4, %rax
; CHECK-SKX-NEXT:    jne .LBB11_1
; CHECK-SKX-NEXT:  # %bb.2: # %middle.block
; CHECK-SKX-NEXT:
   vextracti64x4 $1, %zmm0, %ymm1
; CHECK-SKX-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-SKX-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-SKX-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-SKX-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:    vpsrlq $32, %xmm0, %xmm1
; CHECK-SKX-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-SKX-NEXT:    vmovd %xmm0, %eax
; CHECK-SKX-NEXT:    vzeroupper
; CHECK-SKX-NEXT:    retq
;
; CHECK-AVX512-LABEL: sad_16i8_512:
; CHECK-AVX512:       # %bb.0: # %entry
; CHECK-AVX512-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    movq $-1024, %rax # imm = 0xFC00
; CHECK-AVX512-NEXT:    .p2align 4
; CHECK-AVX512-NEXT:  .LBB11_1: # %vector.body
; CHECK-AVX512-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-AVX512-NEXT:    vmovdqu a+1024(%rax), %xmm1
; CHECK-AVX512-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-AVX512-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
; CHECK-AVX512-NEXT:    addq $4,
 %rax
; CHECK-AVX512-NEXT:    jne .LBB11_1
; CHECK-AVX512-NEXT:  # %bb.2: # %middle.block
; CHECK-AVX512-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-AVX512-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-AVX512-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-AVX512-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-AVX512-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    vpsrlq $32, %xmm0, %xmm1
; CHECK-AVX512-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-AVX512-NEXT:    vmovd %xmm0, %eax
; CHECK-AVX512-NEXT:    vzeroupper
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: sad_16i8_512:
; CHECK-VBMI:       # %bb.0: # %entry
```

```
; CHECK-VBMI-NEXT:    vpxor %xmm0, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    movq $-1024, %rax # imm = 0xFC00
; CHECK-VBMI-NEXT:    .p2align 4
; CHECK-VBMI-NEXT:  .LBB11_1: # %vector.body
; CHECK-VBMI-NEXT:    # =>This Inner Loop Header: Depth=1
; CHECK-VBMI-NEXT:    vmovdqu a+1024(%rax), %xmm1
; CHECK-VBMI-NEXT:
    vpsadbw b+1024(%rax), %xmm1, %xmm1
; CHECK-VBMI-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
; CHECK-VBMI-NEXT:    addq $4, %rax
; CHECK-VBMI-NEXT:    jne .LBB11_1
; CHECK-VBMI-NEXT:  # %bb.2: # %middle.block
; CHECK-VBMI-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
; CHECK-VBMI-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT:    vextracti128 $1, %ymm0, %xmm1
; CHECK-VBMI-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-VBMI-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
; CHECK-VBMI-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
; CHECK-VBMI-NEXT:    vmovd %xmm0, %eax
; CHECK-VBMI-NEXT:    vzeroupper
; CHECK-VBMI-NEXT:    retq
entry:
 br label %vector.body

vector.body:
 %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
 %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
 %0 = getelementptr inbounds [1024 x i8], ptr @a, i64 0, i64 %index
 %1 = bitcast ptr
 %0 to ptr
 %wide.load = load <16 x i8>, ptr %1, align 4
 %2 = zext <16 x i8> %wide.load to <16 x i32>
 %3 = getelementptr inbounds [1024 x i8], ptr @b, i64 0, i64 %index
 %4 = bitcast ptr %3 to ptr
 %wide.load1 = load <16 x i8>, ptr %4, align 4
 %5 = zext <16 x i8> %wide.load1 to <16 x i32>
 %6 = sub nsw <16 x i32> %2, %5
 %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -
1, i32 -1, i32 -1, i32 -1, i32 -1>
 %8 = sub nsw <16 x i32> zeroinitializer, %6
 %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
 %10 = add nsw <16 x i32> %9, %vec.phi
 %index.next = add i64 %index, 4
 %11 = icmp eq i64 %index.next, 1024
 br i1 %11, label %middle.block, label %vector.body
```

```
middle.block:
 %rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
  %bin.rdx = add <16 x i32> %10, %rdx.shuf
 %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
 %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
 %rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
 %bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
 %12 = extractelement <16 x i32> %bin.rdx4, i32 0
 ret i32 %12
}

define
 dso_local void @sbto16f32_256(<16 x i16> %a, ptr %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm1
; CHECK-NEXT:    vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, ptr %res
 ret void
}

define dso_local void @sbto16f32_512(<16 x i16> %a, ptr %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
; CHECK-NEXT:    vzeroupper
```

```
; CHECK-NEXT:
   retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, ptr %res
 ret void
}

define dso_local void @sbto16f64_256(<16 x i16> %a, ptr %res)  "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask
 to <16 x double>
 store <16 x double> %1, ptr %res
 ret void
}

define dso_local void @sbto16f64_512(<16 x i16> %a, ptr %res)  "min-legal-vector-width"="512" {
; CHECK-LABEL: sbto16f64_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = sitofp <16 x i1> %mask to <16 x double>
```

```
 store <16 x double> %1, ptr %res
 ret void
}

define dso_local void @ubto16f32_256(<16 x i16> %a, ptr %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f32_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
;
 CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm1
; CHECK-NEXT:    vpsrld $31, %ymm1, %ymm1
; CHECK-NEXT:    vcvtdq2ps %ymm1, %ymm1
; CHECK-NEXT:    vmovaps %ymm1, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 32(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, ptr %res
 ret void
}

define dso_local void @ubto16f32_512(<16 x i16> %a, ptr %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x float>
 store <16 x float> %1, ptr %res
 ret void
}

define dso_local void @ubto16f64_256(<16
 x i16> %a, ptr %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
```

```
; CHECK-NEXT:    vpmovm2d %k1, %ymm0
; CHECK-NEXT:    vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:    vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:    vpmovm2d %k0, %ymm2
; CHECK-NEXT:    vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:    vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:    vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:    vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:    vmovaps %ymm3, (%rdi)
; CHECK-NEXT:    vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:    vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, ptr %res
 ret void
}

define dso_local void @ubto16f64_512(<16
 x i16> %a, ptr %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovw2m %ymm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT:    vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT:    vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:    vmovaps %zmm1, (%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %mask = icmp slt <16 x i16> %a, zeroinitializer
 %1 = uitofp <16 x i1> %mask to <16 x double>
 store <16 x double> %1, ptr %res
 ret void
}

define <16 x i16> @test_16f32toub_256(ptr %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k0
```

```
; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:    vpslld $31, %ymm1, %ymm1
;
 CHECK-NEXT:    vpmovd2m %ymm1, %k1
; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, ptr %ptr
 %mask = fptoui <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32toub_512(ptr %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32toub_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
; CHECK-NEXT:    vpslld $31, %zmm1, %zmm1
; CHECK-NEXT:    vpmovd2m %zmm1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, ptr %ptr
 %mask = fptoui <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(ptr %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
;
 CHECK-LABEL: test_16f32tosb_256:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k0
; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT:    vpmovd2m %ymm1, %k1
; CHECK-NEXT:    kunpckbw %k0, %k1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, ptr %ptr
 %mask = fptosi <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
 ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(ptr %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
```

```
; CHECK-NEXT:    vpmovd2m %zmm1, %k1
; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
; CHECK-NEXT:    retq
 %a = load <16 x float>, ptr %ptr
 %mask = fptosi <16 x float> %a to <16 x i1>
 %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
  ret <16 x i16> %select
}

define dso_local void @mul256(ptr %a, ptr %b, ptr %c) "min-legal-vector-width"="256" {
; CHECK-SKX-VBMI-LABEL: mul256:
; CHECK-SKX-VBMI:       # %bb.0:
; CHECK-SKX-VBMI-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-SKX-VBMI-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-SKX-VBMI-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-SKX-VBMI-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-SKX-VBMI-NEXT:    vpbroadcastw {{.*#+}} ymm4 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-SKX-VBMI-NEXT:    vpandn %ymm3, %ymm4, %ymm5
; CHECK-SKX-VBMI-NEXT:    vpmaddubsw %ymm5, %ymm1, %ymm5
; CHECK-SKX-VBMI-NEXT:    vpand %ymm4, %ymm3, %ymm3
; CHECK-SKX-VBMI-NEXT:    vpmaddubsw %ymm3, %ymm1, %ymm1
; CHECK-SKX-VBMI-NEXT:    vmovdqa {{.*#+}} ymm3 =
[0,32,2,34,4,36,6,38,8,40,10,42,12,44,14,46,16,48,18,50,20,52,22,54,24,56,26,58,28,60,30,62]
; CHECK-SKX-VBMI-NEXT:    vpermt2b %ymm5, %ymm3, %ymm1
; CHECK-SKX-VBMI-NEXT:    vpandn %ymm2, %ymm4, %ymm5
; CHECK-SKX-VBMI-NEXT:    vpmaddubsw
 %ymm5, %ymm0, %ymm5
; CHECK-SKX-VBMI-NEXT:    vpand %ymm4, %ymm2, %ymm2
; CHECK-SKX-VBMI-NEXT:    vpmaddubsw %ymm2, %ymm0, %ymm0
; CHECK-SKX-VBMI-NEXT:    vpermt2b %ymm5, %ymm3, %ymm0
; CHECK-SKX-VBMI-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-SKX-VBMI-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-SKX-VBMI-NEXT:    vzeroupper
; CHECK-SKX-VBMI-NEXT:    retq
;
; CHECK-AVX512-LABEL: mul256:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-AVX512-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-AVX512-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-AVX512-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-AVX512-NEXT:    vpbroadcastw {{.*#+}} ymm4 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-AVX512-NEXT:    vpand %ymm4, %ymm3, %ymm5
; CHECK-AVX512-NEXT:    vpmaddubsw %ymm5, %ymm1, %ymm5
; CHECK-AVX512-NEXT:    vpandn %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT:    vpmaddubsw %ymm3, %ymm1, %ymm1
```

```
; CHECK-AVX512-NEXT:    vpsllw $8, %ymm1, %ymm1
; CHECK-AVX512-NEXT:
   vpternlogq {{.*#+}} ymm1 = ymm1 | (ymm5 & ymm4)
; CHECK-AVX512-NEXT:    vpand %ymm4, %ymm2, %ymm3
; CHECK-AVX512-NEXT:    vpmaddubsw %ymm3, %ymm0, %ymm3
; CHECK-AVX512-NEXT:    vpandn %ymm2, %ymm4, %ymm2
; CHECK-AVX512-NEXT:    vpmaddubsw %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT:    vpsllw $8, %ymm0, %ymm0
; CHECK-AVX512-NEXT:    vpternlogq {{.*#+}} ymm0 = ymm0 | (ymm3 & ymm4)
; CHECK-AVX512-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-AVX512-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-AVX512-NEXT:    vzeroupper
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: mul256:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT:    vpbroadcastw {{.*#+}} ymm4 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-VBMI-NEXT:    vpandn %ymm3, %ymm4, %ymm5
; CHECK-VBMI-NEXT:    vpmaddubsw %ymm5, %ymm1, %ymm5
;
 CHECK-VBMI-NEXT:    vpand %ymm4, %ymm3, %ymm3
; CHECK-VBMI-NEXT:    vpmaddubsw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} ymm3 =
[0,32,2,34,4,36,6,38,8,40,10,42,12,44,14,46,16,48,18,50,20,52,22,54,24,56,26,58,28,60,30,62]
; CHECK-VBMI-NEXT:    vpermt2b %ymm5, %ymm3, %ymm1
; CHECK-VBMI-NEXT:    vpandn %ymm2, %ymm4, %ymm5
; CHECK-VBMI-NEXT:    vpmaddubsw %ymm5, %ymm0, %ymm5
; CHECK-VBMI-NEXT:    vpand %ymm4, %ymm2, %ymm2
; CHECK-VBMI-NEXT:    vpmaddubsw %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT:    vpermt2b %ymm5, %ymm3, %ymm0
; CHECK-VBMI-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-VBMI-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-VBMI-NEXT:    vzeroupper
; CHECK-VBMI-NEXT:    retq
 %d = load <64 x i8>, ptr %a
 %e = load <64 x i8>, ptr %b
 %f = mul <64 x i8> %d, %e
 store <64 x i8> %f, ptr %c
 ret void
}

define dso_local void @mul512(ptr %a, ptr %b, ptr %c) "min-legal-vector-width"="512" {
; CHECK-SKX-VBMI-LABEL: mul512:
```

```
; CHECK-SKX-VBMI:       # %bb.0:
; CHECK-SKX-VBMI-NEXT:
   vmovdqa64 (%rdi), %zmm0
; CHECK-SKX-VBMI-NEXT:    vmovdqa64 (%rsi), %zmm1
; CHECK-SKX-VBMI-NEXT:    vpbroadcastw {{.*#+}} zmm2 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-SKX-VBMI-NEXT:    vpandnq %zmm1, %zmm2, %zmm3
; CHECK-SKX-VBMI-NEXT:    vpmaddubsw %zmm3, %zmm0, %zmm3
; CHECK-SKX-VBMI-NEXT:    vpandq %zmm2, %zmm1, %zmm1
; CHECK-SKX-VBMI-NEXT:    vpmaddubsw %zmm1, %zmm0, %zmm0
; CHECK-SKX-VBMI-NEXT:    vmovdqa64 {{.*#+}} zmm1 =
[0,64,2,66,4,68,6,70,8,72,10,74,12,76,14,78,16,80,18,82,20,84,22,86,24,88,26,90,28,92,30,94,32,96,34,98,36,100,38,102,40,104,42,106,44,108,46,110,48,112,50,114,52,116,54,118,56,120,58,122,60,124,62,126]
; CHECK-SKX-VBMI-NEXT:    vpermi2b %zmm3, %zmm0, %zmm1
; CHECK-SKX-VBMI-NEXT:    vmovdqa64 %zmm1, (%rdx)
; CHECK-SKX-VBMI-NEXT:    vzeroupper
; CHECK-SKX-VBMI-NEXT:    retq
;
; CHECK-AVX512-LABEL: mul512:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:
   vmovdqa64 (%rdi), %zmm0
; CHECK-AVX512-NEXT:    vmovdqa64 (%rsi), %zmm1
; CHECK-AVX512-NEXT:    vpbroadcastw {{.*#+}} zmm2 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
; CHECK-AVX512-NEXT:    vpandq %zmm2, %zmm1, %zmm3
; CHECK-AVX512-NEXT:    vpmaddubsw %zmm3, %zmm0, %zmm3
; CHECK-AVX512-NEXT:    vpandnq %zmm1, %zmm2, %zmm1
; CHECK-AVX512-NEXT:    vpmaddubsw %zmm1, %zmm0, %zmm0
; CHECK-AVX512-NEXT:    vpsllw $8, %zmm0, %zmm0
; CHECK-AVX512-NEXT:    vpternlogq {{.*#+}} zmm0 = zmm0 | (zmm3 & zmm2)
; CHECK-AVX512-NEXT:    vmovdqa64 %zmm0, (%rdx)
; CHECK-AVX512-NEXT:    vzeroupper
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: mul512:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:    vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT:    vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT:    vpbroadcastw {{.*#+}} zmm2 =
[255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255,255]
;
 CHECK-VBMI-NEXT:    vpandnq %zmm1, %zmm2, %zmm3
; CHECK-VBMI-NEXT:    vpmaddubsw %zmm3, %zmm0, %zmm3
; CHECK-VBMI-NEXT:    vpandq %zmm2, %zmm1, %zmm1
```

```
; CHECK-VBMI-NEXT:    vpmaddubsw %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT:    vmovdqa64 {{.*#+}} zmm1 =
[0,64,2,66,4,68,6,70,8,72,10,74,12,76,14,78,16,80,18,82,20,84,22,86,24,88,26,90,28,92,30,94,32,96,34,98,36,100,3
8,102,40,104,42,106,44,108,46,110,48,112,50,114,52,116,54,118,56,120,58,122,60,124,62,126]
; CHECK-VBMI-NEXT:    vpermi2b %zmm3, %zmm0, %zmm1
; CHECK-VBMI-NEXT:    vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT:    vzeroupper
; CHECK-VBMI-NEXT:    retq
 %d = load <64 x i8>, ptr %a
 %e = load <64 x i8>, ptr %b
 %f = mul <64 x i8> %d, %e
 store <64 x i8> %f, ptr %c
 ret void
}

; This threw an assertion at one point.
define <4 x i32> @mload_v4i32(<4 x i32> %trigger, ptr %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
; CHECK-LABEL: mload_v4i32:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vptestnmd
 %xmm0, %xmm0, %k1
; CHECK-NEXT:    vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
; CHECK-NEXT:    retq
 %mask = icmp eq <4 x i32> %trigger, zeroinitializer
 %res = call <4 x i32> @llvm.masked.load.v4i32.p0(ptr %addr, i32 4, <4 x i1> %mask, <4 x i32> %dst)
 ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0(ptr, i32, <4 x i1>, <4 x i32>)

define <16 x i32> @trunc_v16i64_v16i32(ptr %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i32:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:    vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:    vpmovqd %ymm0, %xmm0
; CHECK-NEXT:    vpmovqd %ymm1, %xmm1
; CHECK-NEXT:    vinserti128 $1, %xmm1, %ymm0, %ymm0
; CHECK-NEXT:    vpmovqd %ymm2, %xmm1
; CHECK-NEXT:    vpmovqd %ymm3, %xmm2
; CHECK-NEXT:    vinserti128 $1, %xmm2, %ymm1, %ymm1
; CHECK-NEXT:    retq
 %a = load <16 x i64>, ptr %x
 %b = trunc <16 x i64>
 %a to <16 x i32>
 ret <16 x i32> %b
}
```

```
define <16 x i8> @trunc_v16i64_v16i8(ptr %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i64_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:    vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:    vpmovqb %ymm3, %xmm3
; CHECK-NEXT:    vpmovqb %ymm2, %xmm2
; CHECK-NEXT:    vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
; CHECK-NEXT:    vpmovqb %ymm1, %xmm1
; CHECK-NEXT:    vpmovqb %ymm0, %xmm0
; CHECK-NEXT:    vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT:    vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm2[0]
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <16 x i64>, ptr %x
 %b = trunc <16 x i64> %a to <16 x i8>
 ret <16 x i8> %b
}

define <16 x i8> @trunc_v16i32_v16i8(ptr %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i8:
; CHECK:       # %bb.0:
;
 CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpmovdb %ymm1, %xmm1
; CHECK-NEXT:    vpmovdb %ymm0, %xmm0
; CHECK-NEXT:    vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <16 x i32>, ptr %x
 %b = trunc <16 x i32> %a to <16 x i8>
 ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(ptr %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpmovqb %ymm1, %xmm1
; CHECK-NEXT:    vpmovqb %ymm0, %xmm0
; CHECK-NEXT:    vpunpckldq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
```

```
 %a = load <8 x i64>, ptr %x
 %b = trunc <8 x i64> %a to <8 x i8>
 ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(ptr %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i16:
; CHECK:
      # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:    vpmovqw %ymm1, %xmm1
; CHECK-NEXT:    vpmovqw %ymm0, %xmm0
; CHECK-NEXT:    vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <8 x i64>, ptr %x
 %b = trunc <8 x i64> %a to <8 x i16>
 ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(ptr %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpsrlq $48, 32(%rdi), %ymm0
; CHECK-NEXT:    vpsrlq $48, (%rdi), %ymm1
; CHECK-NEXT:    vpackusdw %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT:    retq
 %a = load <8 x i64>, ptr %x
 %b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
 %c = trunc <8 x i64> %b to <8 x i32>
 ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(ptr %x) nounwind "min-legal-vector-width"="256"
 {
; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-NEXT:    vpmovsxbw {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT:    vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT:    retq
 %a = load <16 x i32>, ptr %x
 %b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32
16, i32 16, i32 16, i32 16, i32 16>
 %c = trunc <16 x i32> %b to <16 x i16>
 ret <16 x i16> %c
```

```
}

define <32 x i8> @trunc_v32i16_v32i8_zeroes(ptr %x) nounwind "min-legal-vector-width"="256" {
; CHECK-SKX-VBMI-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-SKX-VBMI:       # %bb.0:
; CHECK-SKX-VBMI-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-SKX-VBMI-NEXT:    vmovdqa {{.*#+}} ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-SKX-VBMI-NEXT:    vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-SKX-VBMI-NEXT:    retq
;
;
 CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:    vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:    vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:    vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:    retq
 %a = load <32 x i16>, ptr %x
 %b = lshr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8,
i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>
 %c = trunc <32 x i16> %b to <32 x i8>
 ret <32
 x i8> %c
}

define <8 x i32> @trunc_v8i64_v8i32_sign(ptr %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_sign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpsraq $48, 32(%rdi), %ymm0
; CHECK-NEXT:    vpsraq $48, (%rdi), %ymm1
; CHECK-NEXT:    vpackssdw %ymm0, %ymm1, %ymm0
; CHECK-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT:    retq
 %a = load <8 x i64>, ptr %x
 %b = ashr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
 %c = trunc <8 x i64> %b to <8 x i32>
 ret <8 x i32> %c
}
```

```
define <16 x i16> @trunc_v16i32_v16i16_sign(ptr %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_sign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-NEXT:    vpmovsxbw {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT:    vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT:    retq
 %a = load <16 x i32>, ptr %x
 %b = ashr <16 x i32> %a, <i32 16, i32 16, i32 16,
 i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
 %c = trunc <16 x i32> %b to <16 x i16>
 ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(ptr %x) nounwind "min-legal-vector-width"="256" {
; CHECK-SKX-VBMI-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-SKX-VBMI:       # %bb.0:
; CHECK-SKX-VBMI-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-SKX-VBMI-NEXT:    vmovdqa {{.*#+}} ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-SKX-VBMI-NEXT:    vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-SKX-VBMI-NEXT:    retq
;
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:    vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:    vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-VBMI:
      # %bb.0:
; CHECK-VBMI-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:    vmovdqa {{.*#+}} ymm0 =
[1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT:    vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT:    retq
 %a = load <32 x i16>, ptr %x
 %b = ashr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8,
i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>
 %c = trunc <32 x i16> %b to <32 x i8>
 ret <32 x i8> %c
}

define dso_local void @zext_v16i8_v16i64(<16 x i8> %x, ptr %y) nounwind "min-legal-vector-width"="256" {
```

```
; CHECK-LABEL: zext_v16i8_v16i64:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovzxbw {{.*#+}} ymm1 =
xmm0[0],zero,xmm0[1],zero,xmm0[2],zero,xmm0[3],zero,xmm0[4],zero,xmm0[5],zero,xmm0[6],zero,xmm0[7],zer
o,xmm0[8],zero,xmm0[9],zero,xmm0[10],zero,xmm0[11],zero,xmm0[12],zero,xmm0[13],zero,xmm0[14],zero,xm
m0[15],zero
;
 CHECK-NEXT:    vpshufd {{.*#+}} xmm2 = xmm1[2,3,2,3]
; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm2 =
xmm2[0],zero,zero,zero,xmm2[1],zero,zero,zero,xmm2[2],zero,zero,zero,xmm2[3],zero,zero,zero
; CHECK-NEXT:    vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:    vpshufd {{.*#+}} xmm3 = xmm1[2,3,2,3]
; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm3 =
xmm3[0],zero,zero,zero,xmm3[1],zero,zero,zero,xmm3[2],zero,zero,zero,xmm3[3],zero,zero,zero
; CHECK-NEXT:    vpmovzxwq {{.*#+}} ymm1 =
xmm1[0],zero,zero,zero,xmm1[1],zero,zero,zero,xmm1[2],zero,zero,zero,xmm1[3],zero,zero,zero
; CHECK-NEXT:    vpmovzxbq {{.*#+}} ymm0 =
xmm0[0],zero,zero,zero,zero,zero,zero,zero,xmm0[1],zero,zero,zero,zero,zero,zero,zero,xmm0[2],zero,zero,zero,zer
o,zero,zero,zero,xmm0[3],zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT:    vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:    vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT:    vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:    vmovdqa %ymm2, 32(%rdi)
; CHECK-NEXT:
   vzeroupper
; CHECK-NEXT:    retq
 %a = zext <16 x i8> %x to <16 x i64>
 store <16 x i64> %a, ptr %y
 ret void
}

define dso_local void @sext_v16i8_v16i64(<16 x i8> %x, ptr %y) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: sext_v16i8_v16i64:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpmovsxbw %xmm0, %ymm1
; CHECK-NEXT:    vpshufd {{.*#+}} xmm2 = xmm1[2,3,2,3]
; CHECK-NEXT:    vpmovsxwq %xmm2, %ymm2
; CHECK-NEXT:    vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:    vpshufd {{.*#+}} xmm3 = xmm1[2,3,2,3]
; CHECK-NEXT:    vpmovsxwq %xmm3, %ymm3
; CHECK-NEXT:    vpmovsxwq %xmm1, %ymm1
; CHECK-NEXT:    vpmovsxbq %xmm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:    vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT:    vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:    vmovdqa %ymm2, 32(%rdi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
```

```
 %a = sext <16 x i8> %x to <16 x i64>
 store <16 x i64> %a, ptr %y
 ret void
}

define dso_local void @vselect_split_v8i16_setcc(<8 x i16> %s,
 <8 x i16> %t, ptr %p, ptr %q, ptr %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i16_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:    vpcmpeqw %xmm1, %xmm0, %k1
; CHECK-NEXT:    kshiftrb $4, %k1, %k2
; CHECK-NEXT:    vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:    vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <8 x i64>, ptr %p
 %y = load <8 x i64>, ptr %q
 %a = icmp eq <8 x i16> %s, %t
 %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
 store <8 x i64> %b, ptr %r
 ret void
}

define dso_local void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, ptr %p, ptr %q, ptr %r) "min-legal-
vector-width"="256" {
; CHECK-LABEL: vselect_split_v8i32_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:
    vpcmpeqd %ymm1, %ymm0, %k1
; CHECK-NEXT:    kshiftrb $4, %k1, %k2
; CHECK-NEXT:    vmovdqa64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:    vmovdqa64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <8 x i64>, ptr %p
 %y = load <8 x i64>, ptr %q
 %a = icmp eq <8 x i32> %s, %t
 %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
 store <8 x i64> %b, ptr %r
 ret void
```

```
}

define dso_local void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, ptr %p, ptr %q, ptr %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i8_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:    vpcmpeqb %xmm1, %xmm0, %k1
; CHECK-NEXT:    kshiftrw $8, %k1, %k2
; CHECK-NEXT:    vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:    vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:
   vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <16 x i32>, ptr %p
 %y = load <16 x i32>, ptr %q
 %a = icmp eq <16 x i8> %s, %t
 %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
 store <16 x i32> %b, ptr %r
 ret void
}

define dso_local void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, ptr %p, ptr %q, ptr %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i16_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:    vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT:    kshiftrw $8, %k1, %k2
; CHECK-NEXT:    vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:    vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:    vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <16 x i32>, ptr %p
 %y = load <16 x i32>, ptr %q
 %a = icmp eq <16 x i16> %s, %t
 %b = select <16 x i1> %a, <16 x
 i32> %x, <16 x i32> %y
 store <16 x i32> %b, ptr %r
 ret void
}
```

```
define <16 x i8> @trunc_packus_v16i32_v16i8(ptr %p) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT:    vpmovuswb %ymm0, %xmm0
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <16 x i32>, ptr %p
 %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
 %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
 %d = icmp sgt <16 x i32> %c, zeroinitializer
 %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
 %f = trunc <16 x i32> %e
 to <16 x i8>
 ret <16 x i8> %f
}

define dso_local void @trunc_packus_v16i32_v16i8_store(ptr %p, ptr %q) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), %ymm0
; CHECK-NEXT:    vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT:    vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT:    vpmovuswb %ymm0, (%rsi)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %a = load <16 x i32>, ptr %p
 %b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
 %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32
255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
 %d = icmp sgt <16 x i32> %c, zeroinitializer
 %e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
 %f = trunc <16 x i32> %e to <16
 x i8>
 store <16 x i8> %f, ptr %q
 ret void
}

define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_argument_return:
; CHECK:       # %bb.0:
; CHECK-NEXT:    retq
 ret <64 x i1> %x
```

```
}

define dso_local void @v64i1_shuffle(ptr %x, ptr %y) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_shuffle:
; CHECK:       # %bb.0: # %entry
; CHECK-NEXT:    vmovdqa (%rdi), %ymm1
; CHECK-NEXT:    vmovdqa 32(%rdi), %ymm0
; CHECK-NEXT:    vptestnmb %ymm1, %ymm1, %k0
; CHECK-NEXT:    kshiftrd $1, %k0, %k1
; CHECK-NEXT:    kshiftlq $63, %k0, %k2
; CHECK-NEXT:    kshiftrq $62, %k2, %k2
; CHECK-NEXT:    kshiftlq $63, %k1, %k1
; CHECK-NEXT:    kshiftrq $63, %k1, %k1
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-5, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $3, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $61, %k2, %k2
; CHECK-NEXT:    korq %k2,
 %k1, %k1
; CHECK-NEXT:    movq $-9, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $2, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $60, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-17, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $5, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $59, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-33, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $4, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $58, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-65, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $7, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
```

```
; CHECK-NEXT:    kshiftrq $57, %k2,
 %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-129, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $6, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $56, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $9, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $55, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-513, %rax # imm = 0xFDFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $8, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $54, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $11,
 %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $53, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-2049, %rax # imm = 0xF7FF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $10, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $52, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-4097, %rax # imm = 0xEFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $13, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $51, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-8193, %rax # imm = 0xDFFF
; CHECK-NEXT:    kmovq %rax, %k2
```

```
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $12, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $50, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-16385, %rax # imm = 0xBFFF
;
 CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $15, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $49, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-32769, %rax # imm = 0xFFFF7FFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $14, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $48, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-65537, %rax # imm = 0xFFFEFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $17, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $47, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-131073, %rax # imm = 0xFFFDFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $16, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
;
 CHECK-NEXT:    kshiftrq $46, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-262145, %rax # imm = 0xFFFBFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $19, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $45, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-524289, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $18, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $44, %k2, %k2
```

```
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1048577, %rax # imm = 0xFFEFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $21, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $43, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-2097153, %rax # imm = 0xFFDFFFFF
; CHECK-NEXT:    kmovq
 %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $20, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $42, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-4194305, %rax # imm = 0xFFBFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $23, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $41, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-8388609, %rax # imm = 0xFF7FFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $22, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $40, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-16777217, %rax # imm = 0xFEFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $25, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq
 $39, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-33554433, %rax # imm = 0xFDFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $24, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $38, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-67108865, %rax # imm = 0xFBFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
```

```
; CHECK-NEXT:    kshiftrd $27, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $37, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-134217729, %rax # imm = 0xF7FFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $26, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $36, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-268435457, %rax # imm = 0xEFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
;
 CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $29, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $35, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-536870913, %rax # imm = 0xDFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $28, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $34, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1073741825, %rax # imm = 0xBFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $31, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $33, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movabsq $-2147483649, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k2
; CHECK-NEXT:    vptestnmb %ymm0, %ymm0, %k1
; CHECK-NEXT:    kshiftrd $30, %k0, %k0
; CHECK-NEXT:
   kshiftlq $63, %k0, %k0
; CHECK-NEXT:    kshiftrq $32, %k0, %k0
; CHECK-NEXT:    korq %k0, %k2, %k0
; CHECK-NEXT:    movabsq $-4294967297, %rax # imm = 0xFFFFFFFEFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $1, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $31, %k2, %k2
```

```
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-8589934593, %rax # imm = 0xFFFFFFFDFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftlq $63, %k1, %k2
; CHECK-NEXT:    kshiftrq $30, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-17179869185, %rax # imm = 0xFFFFFFFBFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $3, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $29, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-34359738369, %rax
 # imm = 0xFFFFFFF7FFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $2, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $28, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-68719476737, %rax # imm = 0xFFFFFFEFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $5, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $27, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-137438953473, %rax # imm = 0xFFFFFFDFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $4, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $26, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-274877906945, %rax # imm = 0xFFFFFFBFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:
   kshiftrd $7, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $25, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-549755813889, %rax # imm = 0xFFFFFF7FFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $6, %k1, %k2
```

```
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $24, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-1099511627777, %rax # imm = 0xFFFFFEFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $9, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $23, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-2199023255553, %rax # imm = 0xFFFFFDFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $8, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $22, %k2,
 %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-4398046511105, %rax # imm = 0xFFFFFBFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $11, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $21, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-8796093022209, %rax # imm = 0xFFFFF7FFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $10, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $20, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-17592186044417, %rax # imm = 0xFFFFEFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $13, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $19, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-35184372088833, %rax # imm = 0xFFFFDFFFFFFFFFFF
;
 CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $12, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $18, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-70368744177665, %rax # imm = 0xFFFFBFFFFFFFFFFF
```

```
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $15, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $17, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-140737488355329, %rax # imm = 0xFFFF7FFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $14, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $16, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-281474976710657, %rax # imm = 0xFFFEFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:
   kshiftrd $17, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $15, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-562949953421313, %rax # imm = 0xFFFDFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $16, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $14, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-1125899906842625, %rax # imm = 0xFFFBFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $19, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $13, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-2251799813685249, %rax # imm = 0xFFF7FFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $18, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq
 $12, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-4503599627370497, %rax # imm = 0xFFEFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $21, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
```

```
; CHECK-NEXT:    kshiftrq $11, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-9007199254740993, %rax # imm = 0xFFDFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $20, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $10, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-18014398509481985, %rax # imm = 0xFFBFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $23, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $9, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-36028797018963969,
 %rax # imm = 0xFF7FFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $22, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $8, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $25, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $7, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-144115188075855873, %rax # imm = 0xFDFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $24, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $6, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-288230376151711745, %rax # imm = 0xFBFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:
   kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $27, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $5, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-576460752303423489, %rax # imm = 0xF7FFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
```

```
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $26, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $4, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-1152921504606846977, %rax # imm = 0xEFFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $29, %k1, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $3, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-2305843009213693953, %rax # imm = 0xDFFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $28, %k1, %k2
; CHECK-NEXT:    kshiftlq
 $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $2, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    movabsq $-4611686018427387905, %rax # imm = 0xBFFFFFFFFFFFFFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $31, %k1, %k2
; CHECK-NEXT:    kshiftlq $62, %k2, %k2
; CHECK-NEXT:    korq %k2, %k0, %k0
; CHECK-NEXT:    kshiftrd $30, %k1, %k1
; CHECK-NEXT:    kshiftlq $1, %k0, %k0
; CHECK-NEXT:    kshiftrq $1, %k0, %k0
; CHECK-NEXT:    kshiftlq $63, %k1, %k1
; CHECK-NEXT:    korq %k1, %k0, %k1
; CHECK-NEXT:    vmovdqu8 %ymm1, (%rsi) {%k1}
; CHECK-NEXT:    kshiftrq $32, %k1, %k1
; CHECK-NEXT:    vmovdqu8 %ymm0, 32(%rsi) {%k1}
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
entry:
 %a = load <64 x i8>, ptr %x
 %b = icmp eq <64 x i8> %a, zeroinitializer
 %shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 3, i32 2, i32 5, i32 4, i32 7, i32
6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32
 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32 22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32
31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39, i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44,
i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32 55, i32 54, i32 57, i32 56, i32 59, i32 58, i32 61, i32
60, i32 63, i32 62>
 call void @llvm.masked.store.v64i8.p0(<64 x i8> %a, ptr %y, i32 1, <64 x i1> %shuf)
 ret void
}
```

```
declare void @llvm.masked.store.v64i8.p0(<64 x i8>, ptr, i32, <64 x i1>)

@mem64_dst = dso_local global i64 0, align 8
@mem64_src = dso_local global i64 0, align 8
define dso_local i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_inline_asm:
; CHECK:       # %bb.0:
; CHECK-NEXT:    kmovq mem64_src(%rip), %k0
; CHECK-NEXT:    #APP
; CHECK-NEXT:    #NO_APP
; CHECK-NEXT:    kmovq %k0, mem64_dst(%rip)
; CHECK-NEXT:    movl -{{[0-9]+}}(%rsp), %eax
; CHECK-NEXT:    retq
 %1 = alloca i32,
 align 4
 %2 = load i64, ptr @mem64_src, align 8
 %3 = call i64 asm "", "=k,k,~{dirflag},~{fpsr},~{flags}"(i64 %2)
 store i64 %3, ptr @mem64_dst, align 8
 %4 = load i32, ptr %1, align 4
 ret i32 %4
}

define dso_local void @cmp_v8i64_sext(ptr %xptr, ptr %yptr, ptr %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: cmp_v8i64_sext:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT:    vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT:    vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <8 x i64>, ptr %xptr
 %y = load <8 x i64>, ptr %yptr
 %cmp = icmp slt <8 x i64> %x, %y
 %ext = sext <8 x i1> %cmp to <8 x i64>
 store <8 x i64> %ext, ptr %zptr
 ret void
}

define dso_local void @cmp_v8i64_zext(ptr %xptr, ptr %yptr, ptr %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: cmp_v8i64_zext:
;
 CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rsi), %ymm0
; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT:    vpcmpgtq 32(%rdi), %ymm1, %ymm1
```

```
; CHECK-NEXT:    vpcmpgtq (%rdi), %ymm0, %ymm0
; CHECK-NEXT:    vpsrlq $63, %ymm1, %ymm1
; CHECK-NEXT:    vpsrlq $63, %ymm0, %ymm0
; CHECK-NEXT:    vmovdqa %ymm0, (%rdx)
; CHECK-NEXT:    vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT:    vzeroupper
; CHECK-NEXT:    retq
 %x = load <8 x i64>, ptr %xptr
 %y = load <8 x i64>, ptr %yptr
 %cmp = icmp slt <8 x i64> %x, %y
 %ext = zext <8 x i1> %cmp to <8 x i64>
 store <8 x i64> %ext, ptr %zptr
 ret void
}

define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpandd {{\.?LCPI[0-9]+_[0-9]+}}(%rip){1to4}, %xmm1, %xmm1
; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
; CHECK-NEXT:    vpunpckhbw {{.*#+}} xmm2 =
xmm1[8],xmm2[8],xmm1[9],xmm2[9],xmm1[10],xmm2[10],xmm1[11],xmm2[11],xmm1[12],xmm2[12],xmm1[13
],xmm2[13],xmm1[14],xmm2[14],xmm1[15],xmm2[15]
;
 CHECK-NEXT:    vpunpckhbw {{.*#+}} xmm3 = xmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15]
; CHECK-NEXT:    vpsllvw %xmm2, %xmm3, %xmm2
; CHECK-NEXT:    vpsrlw $8, %xmm2, %xmm2
; CHECK-NEXT:    vpunpcklbw {{.*#+}} xmm0 = xmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7]
; CHECK-NEXT:    vpmovzxbw {{.*#+}} xmm1 =
xmm1[0],zero,xmm1[1],zero,xmm1[2],zero,xmm1[3],zero,xmm1[4],zero,xmm1[5],zero,xmm1[6],zero,xmm1[7],zer
o
; CHECK-NEXT:    vpsllvw %xmm1, %xmm0, %xmm0
; CHECK-NEXT:    vpsrlw $8, %xmm0, %xmm0
; CHECK-NEXT:    vpackuswb %xmm2, %xmm0, %xmm0
; CHECK-NEXT:    retq
 %b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
 %shl = shl <16 x i8> %a, %b
 %lshr = lshr <16 x i8> %a, %b8
 %or = or <16 x i8> %shl, %lshr
 ret <16 x i8> %or
}

define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: var_rotate_v32i8:
;
 CHECK:       # %bb.0:
; CHECK-NEXT:    vpandd {{\.?LCPI[0-9]+_[0-9]+}}(%rip){1to8}, %ymm1, %ymm1
; CHECK-NEXT:    vpxor %xmm2, %xmm2, %xmm2
```

```
; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm3 =
ymm1[8],ymm2[8],ymm1[9],ymm2[9],ymm1[10],ymm2[10],ymm1[11],ymm2[11],ymm1[12],ymm2[12],ymm1[13
],ymm2[13],ymm1[14],ymm2[14],ymm1[15],ymm2[15],ymm1[24],ymm2[24],ymm1[25],ymm2[25],ymm1[26],ym
m2[26],ymm1[27],ymm2[27],ymm1[28],ymm2[28],ymm1[29],ymm2[29],ymm1[30],ymm2[30],ymm1[31],ymm2[
31]
; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm4 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT:    vpsllvw %ymm3, %ymm4, %ymm3
; CHECK-NEXT:    vpsrlw $8, %ymm3, %ymm3
; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm1 =
ymm1[0],ymm2[0],ymm1[1],ymm2[1],ymm1[2],ymm2[2],ymm1[3],ymm2[3],ymm1[4],ymm2[4],ymm1[5],ymm2[
5],ymm1[6],ymm2[6],ymm1[7],ymm2[7],ymm1[16],ymm2[16],ymm1[17],ymm2[17],ymm1[18],ymm2[18],ymm1[
19],ymm2[19],ymm1[20],ymm2[20],ymm1[21],ymm2[21],ymm1[22],ymm2[22],ymm1[23],ymm2[23]
;
 CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT:    vpsllvw %ymm1, %ymm0, %ymm0
; CHECK-NEXT:    vpsrlw $8, %ymm0, %ymm0
; CHECK-NEXT:    vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-NEXT:    retq
 %b8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
 %shl = shl <32 x i8> %a, %b
 %lshr = lshr <32 x i8> %a, %b8
 %or = or <32 x i8> %shl, %lshr
 ret <32 x i8> %or
}

define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256"
{
; CHECK-LABEL: splatvar_rotate_v32i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vpunpckhbw {{.*#+}} ymm2 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT:    vpand {{\.?LCPI[0-9]+_[0-9]+}}(%rip),
 %xmm1, %xmm1
; CHECK-NEXT:    vpsllw %xmm1, %ymm2, %ymm2
; CHECK-NEXT:    vpsrlw $8, %ymm2, %ymm2
; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT:    vpsllw %xmm1, %ymm0, %ymm0
; CHECK-NEXT:    vpsrlw $8, %ymm0, %ymm0
; CHECK-NEXT:    vpackuswb %ymm2, %ymm0, %ymm0
; CHECK-NEXT:    retq
 %splat = shufflevector <32 x i8> %b, <32 x i8> undef, <32 x i32> zeroinitializer
 %splat8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %splat
 %shl = shl <32 x i8> %a, %splat
```

```
 %lshr = lshr <32 x i8> %a, %splat8
 %or = or <32 x i8> %shl, %lshr
 ret <32 x i8> %or
}

define <32 x i8> @constant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: constant_rotate_v32i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:
   vpunpckhbw {{.*#+}} ymm1 =
ymm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-NEXT:    vpsllvw {{\.?LCPI[0-9]+_[0-9]+}}(%rip), %ymm1, %ymm1
; CHECK-NEXT:    vpsrlw $8, %ymm1, %ymm1
; CHECK-NEXT:    vpunpcklbw {{.*#+}} ymm0 =
ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-NEXT:    vpsllvw {{\.?LCPI[0-9]+_[0-9]+}}(%rip), %ymm0, %ymm0
; CHECK-NEXT:    vpsrlw $8, %ymm0, %ymm0
; CHECK-NEXT:    vpackuswb %ymm1, %ymm0, %ymm0
; CHECK-NEXT:    retq
 %shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8
1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1>
 %lshr = lshr <32 x i8> %a, <i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8,
i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7>
  %or = or <32 x i8> %shl, %lshr
 ret <32 x i8> %or
}

define <32 x i8> @splatconstant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-SKX-LABEL: splatconstant_rotate_v32i8:
; CHECK-SKX:       # %bb.0:
; CHECK-SKX-NEXT:    vpsllw $4, %ymm0, %ymm1
; CHECK-SKX-NEXT:    vpsrlw $4, %ymm0, %ymm0
; CHECK-SKX-NEXT:    vpternlogd {{.*#+}} ymm0 = ymm0 ^ (mem & (ymm0 ^ ymm1))
; CHECK-SKX-NEXT:    retq
;
; CHECK-AVX512-LABEL: splatconstant_rotate_v32i8:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vpsllw $4, %ymm0, %ymm1
; CHECK-AVX512-NEXT:    vpsrlw $4, %ymm0, %ymm0
; CHECK-AVX512-NEXT:    vpternlogd {{.*#+}} ymm0 = ymm0 ^ (mem & (ymm0 ^ ymm1))
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI1-LABEL: splatconstant_rotate_v32i8:
; CHECK-VBMI1:       # %bb.0:
; CHECK-VBMI1-NEXT:    vpsllw $4, %ymm0, %ymm1
; CHECK-VBMI1-NEXT:    vpsrlw $4, %ymm0, %ymm0
; CHECK-VBMI1-NEXT:    vpternlogd {{.*#+}} ymm0 = ymm0 ^ (mem & (ymm0 ^ ymm1))
; CHECK-VBMI1-NEXT:    retq
```

```
;
; CHECK-GFNI-LABEL:
 splatconstant_rotate_v32i8:
; CHECK-GFNI:       # %bb.0:
; CHECK-GFNI-NEXT:    vgf2p8affineqb $0, {{\.?LCPI[0-9]+_[0-9]+}}(%rip){1to4}, %ymm0, %ymm0
; CHECK-GFNI-NEXT:    retq
 %shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
 %lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
 %or = or <32 x i8> %shl, %lshr
 ret <32 x i8> %or
}

define <32 x i8> @splatconstant_rotate_mask_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-SKX-LABEL: splatconstant_rotate_mask_v32i8:
; CHECK-SKX:       # %bb.0:
; CHECK-SKX-NEXT:    vpsllw $4, %ymm0, %ymm1
; CHECK-SKX-NEXT:    vpsrlw $4, %ymm0, %ymm0
; CHECK-SKX-NEXT:    vpternlogd {{.*#+}}
 ymm0 = ymm0 ^ (mem & (ymm0 ^ ymm1))
; CHECK-SKX-NEXT:    vpandd {{\.?LCPI[0-9]+_[0-9]+}}(%rip){1to8}, %ymm0, %ymm0
; CHECK-SKX-NEXT:    retq
;
; CHECK-AVX512-LABEL: splatconstant_rotate_mask_v32i8:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vpsllw $4, %ymm0, %ymm1
; CHECK-AVX512-NEXT:    vpsrlw $4, %ymm0, %ymm0
; CHECK-AVX512-NEXT:    vpternlogd {{.*#+}} ymm0 = ymm0 ^ (mem & (ymm0 ^ ymm1))
; CHECK-AVX512-NEXT:    vpandd {{\.?LCPI[0-9]+_[0-9]+}}(%rip){1to8}, %ymm0, %ymm0
; CHECK-AVX512-NEXT:    retq
;
; CHECK-VBMI1-LABEL: splatconstant_rotate_mask_v32i8:
; CHECK-VBMI1:       # %bb.0:
; CHECK-VBMI1-NEXT:    vpsllw $4, %ymm0, %ymm1
; CHECK-VBMI1-NEXT:    vpsrlw $4, %ymm0, %ymm0
; CHECK-VBMI1-NEXT:    vpternlogd {{.*#+}} ymm0 = ymm0 ^ (mem & (ymm0 ^ ymm1))
; CHECK-VBMI1-NEXT:    vpandd {{\.?LCPI[0-9]+_[0-9]+}}(%rip){1to8}, %ymm0, %ymm0
; CHECK-VBMI1-NEXT:    retq
;
; CHECK-GFNI-LABEL: splatconstant_rotate_mask_v32i8:
; CHECK-GFNI:       # %bb.0:
; CHECK-GFNI-NEXT:    vgf2p8affineqb
 $0, {{\.?LCPI[0-9]+_[0-9]+}}(%rip){1to4}, %ymm0, %ymm0
; CHECK-GFNI-NEXT:    vpandd {{\.?LCPI[0-9]+_[0-9]+}}(%rip){1to8}, %ymm0, %ymm0
; CHECK-GFNI-NEXT:    retq
 %shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
```

```
 %lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
 %rmask = and <32 x i8> %lshr, <i8 55, i8 55, i8 55,
```

```
 ]

sw.bb.i17:                                        ; preds = %.exit
 %0 = load i32, ptr %lsr.iv, align 4
 unreachable

sw.bb3.i20:                                       ; preds = %exit
 %1 = load ptr, ptr %lsr.iv, align 4
 unreachable

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

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

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

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

define fp128 @TestSelect(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestSelect:
; CHECK:       # %bb.0:
; CHECK-NEXT:    pushq %rbx
; CHECK-NEXT:    .cfi_def_cfa_offset 16
; CHECK-NEXT:    subq $32, %rsp
; CHECK-NEXT:    .cfi_def_cfa_offset 48
; CHECK-NEXT:    .cfi_offset %rbx, -16
; CHECK-NEXT:    movaps %xmm1, {{[-0-9]+}}(%r{{[sb]}}p) # 16-byte Spill
; CHECK-NEXT:    movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:    callq __gttf2@PLT
; CHECK-NEXT:    movl %eax, %ebx
; CHECK-NEXT:    movaps (%rsp), %xmm0 # 16-byte Reload
; CHECK-NEXT:    movaps {{[-0-9]+}}(%r{{[sb]}}p),
 %xmm1 # 16-byte Reload
; CHECK-NEXT:    callq __subtf3@PLT
; CHECK-NEXT:    testl %ebx, %ebx
; CHECK-NEXT:    jg .LBB0_2
; CHECK-NEXT:  # %bb.1:
```

```
; CHECK-NEXT:    xorps %xmm0, %xmm0
; CHECK-NEXT:  .LBB0_2:
; CHECK-NEXT:    addq $32, %rsp
; CHECK-NEXT:    .cfi_def_cfa_offset 16
; CHECK-NEXT:    popq %rbx
; CHECK-NEXT:    .cfi_def_cfa_offset 8
; CHECK-NEXT:    retq
 %cmp = fcmp ogt fp128 %a, %b
 %sub = fsub fp128 %a, %b
 %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
 ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
; CHECK-LABEL: TestFabs:
; CHECK:       # %bb.0:
; CHECK-NEXT:    andps {{\.?LCPI[0-9]+_[0-9]+}}(%rip), %xmm0
; CHECK-NEXT:    retq
 %res = call fp128 @llvm.fabs.f128(fp128 %a)
 ret fp128 %res
}

define fp128 @TestCopysign(fp128 %a, fp128 %b) {
; CHECK-LABEL: TestCopysign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    andps {{\.?LCPI[0-9]+_[0-9]+}}(%rip), %xmm1
; CHECK-NEXT:    andps {{\.?LCPI[0-9]+_[0-9]+}}(%rip), %xmm0
; CHECK-NEXT:
   orps %xmm1, %xmm0
; CHECK-NEXT:    retq
 %res = call fp128 @llvm.copysign.f128(fp128 %a, fp128 %b)
 ret fp128 %res
}

define fp128 @TestFneg(fp128 %a) {
; CHECK-LABEL: TestFneg:
; CHECK:       # %bb.0:
; CHECK-NEXT:    pushq %rax
; CHECK-NEXT:    .cfi_def_cfa_offset 16
; CHECK-NEXT:    movaps %xmm0, %xmm1
; CHECK-NEXT:    callq __multf3@PLT
; CHECK-NEXT:    xorps {{\.?LCPI[0-9]+_[0-9]+}}(%rip), %xmm0
; CHECK-NEXT:    popq %rax
; CHECK-NEXT:    .cfi_def_cfa_offset 8
; CHECK-NEXT:    retq
 %mul = fmul fp128 %a, %a
 %res = fsub fp128 0xL00000000000000008000000000000000, %mul
 ret fp128 %res
```

}

---

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```
THE SOFTWARE.
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc -mtriple=amdgcn -mcpu=fiji < %s | FileCheck -check-prefixes=VI %s

; FIXME: This one should fold to rcp
define half @select_fneg_posk_src_rcp_f16(i32 %c, half %x, half %y) {
; VI-LABEL: select_fneg_posk_src_rcp_f16:
; VI:       ; %bb.0:
; VI-NEXT:    s_waitcnt vmcnt(0) expcnt(0) lgkmcnt(0)
; VI-NEXT:    v_rcp_f16_e64 v1, -v1
; VI-NEXT:    v_mov_b32_e32 v2, 0x4000
; VI-NEXT:    v_cmp_eq_u32_e32 vcc, 0, v0
; VI-NEXT:    v_cndmask_b32_e32 v0, v2, v1, vcc
; VI-NEXT:    s_setpc_b64 s[30:31]
 %cmp = icmp eq i32 %c, 0
 %rcp = call half @llvm.amdgcn.rcp.f16(half %x)
 %fneg = fneg half %rcp
 %select = select i1 %cmp, half %fneg, half 2.0
 ret half %select
}

declare half @llvm.amdgcn.rcp.f16(half) #0

attributes #0 = { nocallback nofree nosync nounwind speculatable willreturn memory(none) }
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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --include-generated-
funcs
; RUN: opt -S -passes=verify,iroutliner -ir-outlining-no-cost < %s | FileCheck %s

; This test checks that we do outline indirect calls when it is not specified
; that we should not.

declare void @f1(ptr, ptr);
declare void @f2(ptr, ptr);

define void @function1(ptr %func) {
entry:
 %a = alloca i32, align 4
 %b = alloca i32, align 4
 %c = alloca i32, align 4
 store i32 2, ptr %a, align 4
 store i32 3, ptr %b, align 4
 store i32 4, ptr %c, align 4
 call void %func()
 %al = load i32, ptr %a
 %bl = load i32, ptr %b
 %cl = load i32, ptr %c
 ret void
```

```
}

define void @function2(ptr %func) {
entry:
 %a = alloca i32, align 4
 %b = alloca i32, align 4
 %c = alloca i32, align 4
 store i32 2, ptr %a, align 4
 store i32 3, ptr %b, align 4
 store i32 4, ptr %c, align 4
 call void %func()
 %al = load i32, ptr %a
 %bl = load i32, ptr %b
 %cl = load i32, ptr %c
 ret void
}
;
 CHECK-LABEL: @function1(
; CHECK-NEXT:  entry:
; CHECK-NEXT:    [[A:%.*]] = alloca i32, align 4
; CHECK-NEXT:    [[B:%.*]] = alloca i32, align 4
; CHECK-NEXT:    [[C:%.*]] = alloca i32, align 4
; CHECK-NEXT:    call void @outlined_ir_func_0(ptr [[A]], ptr [[B]], ptr [[C]], ptr [[FUNC:%.*]])
; CHECK-NEXT:    ret void
;
;
; CHECK-LABEL: @function2(
; CHECK-NEXT:  entry:
; CHECK-NEXT:    [[A:%.*]] = alloca i32, align 4
; CHECK-NEXT:    [[B:%.*]] = alloca i32, align 4
; CHECK-NEXT:    [[C:%.*]] = alloca i32, align 4
; CHECK-NEXT:    call void @outlined_ir_func_0(ptr [[A]], ptr [[B]], ptr [[C]], ptr [[FUNC:%.*]])
; CHECK-NEXT:    ret void
;
;
; CHECK-LABEL: define internal void  @outlined_ir_func_0(
; CHECK-NEXT:  newFuncRoot:
; CHECK-NEXT:    br label [[ENTRY_TO_OUTLINE:%.*]]
; CHECK:       entry_to_outline:
; CHECK-NEXT:    store i32 2, ptr [[TMP0:%.*]], align 4
; CHECK-NEXT:    store i32 3, ptr [[TMP1:%.*]], align 4
; CHECK-NEXT:    store i32 4, ptr [[TMP2:%.*]], align 4
; CHECK-NEXT:
   call void [[TMP3:%.*]]()
; CHECK-NEXT:    [[AL:%.*]] = load i32, ptr [[TMP0]], align 4
; CHECK-NEXT:    [[BL:%.*]] = load i32, ptr [[TMP1]], align 4
; CHECK-NEXT:    [[CL:%.*]] = load i32, ptr [[TMP2]], align 4
; CHECK-NEXT:    br label [[ENTRY_AFTER_OUTLINE_EXITSTUB:%.*]]
```

```
; CHECK:       entry_after_outline.exitStub:
; CHECK-NEXT:    ret void
;
; RUN: llc < %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(ptr) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
 %L34 = load i8, ptr %0
 %Cmp56 = icmp sgt i8 undef, %L34
 br label %CF246

CF246:                                            ; preds = %CF246, %BB
 %Sl163 = select i1 %Cmp56, i8 %L34, i8 undef
 br i1 undef, label %CF246, label %CF248

CF248:                                            ; preds = %CF248, %CF246
 store i8 %Sl163, ptr %0
 br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --
check-attributes --check-globals
; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal  -attributor-annotate-decl-cs -S <
%s | FileCheck %s --check-prefixes=CHECK,TUNIT
; RUN: opt -aa-pipeline=basic-aa -passes=attributor-cgscc -attributor-manifest-internal  -attributor-annotate-decl-cs -
S < %s | FileCheck %s --check-prefixes=CHECK,CGSCC
; Test that we only promote arguments when the caller/callee have compatible
; function attrubtes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr %arg, ptr
readonly %arg1) #0 {
;
; CHECK: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME:
 (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>
[[TMP0:%.*]]) #[[ATTR0:[0-9]+]] {
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; CHECK-NEXT:    store <8 x i64> [[TMP0]], ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1_PRIV]], align 64
```

```
; CHECK-NEXT:    store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr %arg) #0 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; TUNIT-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR0]] {
; TUNIT-NEXT:  bb:
; TUNIT-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align
 32
; TUNIT-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 32
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5:[0-9]+]]
; TUNIT-NEXT:    [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; TUNIT-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
#[[ATTR6:[0-9]+]]
; TUNIT-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; TUNIT-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT:    ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CGSCC-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CGSCC-SAME: (ptr nocapture nofree noundef nonnull
 writeonly align 2 dereferenceable(64) [[ARG:%.*]]) #[[ATTR0]] {
; CGSCC-NEXT:  bb:
; CGSCC-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5:[0-9]+]]
; CGSCC-NEXT:    [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; CGSCC-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
#[[ATTR6:[0-9]+]]
; CGSCC-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; CGSCC-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT:    ret void
;
bb:
```

```
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp,
 i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr %arg, ptr
readonly %arg1) #1 {
;
; CHECK: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR1:[0-9]+]] {
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; CHECK-NEXT:    store <8 x i64> [[TMP0]], ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT:
    store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr %arg) #1 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; TUNIT-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR1]] {
; TUNIT-NEXT:  bb:
; TUNIT-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 32
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT:    [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; TUNIT-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr
 noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
#[[ATTR6]]
```

```
; TUNIT-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; TUNIT-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT:    ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable
; CGSCC-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CGSCC-SAME: (ptr nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]]) #[[ATTR1]] {
; CGSCC-NEXT:  bb:
; CGSCC-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
;
 CGSCC-NEXT:    [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; CGSCC-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR6]]
; CGSCC-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; CGSCC-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr %arg, ptr readonly %arg1) #1 {
;
; CHECK: Function Attrs:
 inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR1]] {
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; CHECK-NEXT:    store <8 x i64> [[TMP0]], ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT:    store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT:    ret void
```

```
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr %arg) #0 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable
; TUNIT-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
;
 TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR0]] {
; TUNIT-NEXT:  bb:
; TUNIT-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 32 dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT:    [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; TUNIT-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR6]]
; TUNIT-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; TUNIT-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT:    ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind
 willreturn memory(argmem: readwrite) uwtable
; CGSCC-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CGSCC-SAME: (ptr nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]]) #[[ATTR0]] {
; CGSCC-NEXT:  bb:
; CGSCC-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; CGSCC-NEXT:    [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; CGSCC-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR6]]
; CGSCC-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; CGSCC-NEXT:    store <8 x i64> [[TMP4]], ptr
 [[ARG]], align 2
; CGSCC-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
```

```
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr %arg, ptr
readonly %arg1) #0 {
;
; CHECK: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR0]] {
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>,
 align 64
; CHECK-NEXT:    store <8 x i64> [[TMP0]], ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT:    store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr %arg) #1 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; TUNIT-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR1]] {
; TUNIT-NEXT:  bb:
; TUNIT-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 32
dereferenceable(64) [[TMP]], i8 noundef 0,
 i64 noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT:    [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; TUNIT-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
#[[ATTR6]]
; TUNIT-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
```

```
; TUNIT-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT:    ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable
; CGSCC-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CGSCC-SAME: (ptr nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]]) #[[ATTR1]] {
; CGSCC-NEXT:  bb:
; CGSCC-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    call void @llvm.memset.p0.i64(ptr
 noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; CGSCC-NEXT:    [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; CGSCC-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR6]]
; CGSCC-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; CGSCC-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; This should
 not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %arg, ptr readonly %arg1) #1 {
;
; CHECK: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], ptr noalias nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]]) #[[ATTR1]] {
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1]], align 64
; CHECK-NEXT:    store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT:    ret void
;
```

```
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %arg) #2 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse
 nosync nounwind willreturn memory(argmem: readwrite) uwtable
; TUNIT-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR2:[0-9]+]] {
; TUNIT-NEXT:  bb:
; TUNIT-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 32
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT:    call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], ptr noalias nocapture
nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) #[[ATTR6]]
; TUNIT-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; TUNIT-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align
 2
; TUNIT-NEXT:    ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CGSCC-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CGSCC-SAME: (ptr nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
#[[ATTR2:[0-9]+]] {
; CGSCC-NEXT:  bb:
; CGSCC-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; CGSCC-NEXT:    call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], ptr noalias nocapture
nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) #[[ATTR6]]
;
 CGSCC-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; CGSCC-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %tmp2, ptr %tmp)
```

```
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %arg, ptr
readonly %arg1) #2 {
;
; CHECK: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
 [[ARG:%.*]], ptr noalias nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
#[[ATTR2:[0-9]+]] {
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1]], align 64
; CHECK-NEXT:    store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %arg) #1 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; TUNIT-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR1]] {
; TUNIT-NEXT:  bb:
; TUNIT-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull
 writeonly align 32 dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], ptr noalias nocapture
nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) #[[ATTR6]]
; TUNIT-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; TUNIT-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT:    ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CGSCC-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CGSCC-SAME: (ptr nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
```

```
#[[ATTR1]] {
; CGSCC-NEXT:  bb:
; CGSCC-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    [[TMP2:%.*]]
 = alloca <8 x i64>, align 32
; CGSCC-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; CGSCC-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr
noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], ptr noalias nocapture
nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) #[[ATTR6]]
; CGSCC-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; CGSCC-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store
 <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr %arg, ptr readonly
%arg1) #3 {
;
; CHECK: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
readwrite) uwtable
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR3:[0-9]+]] {
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; CHECK-NEXT:    store <8 x i64> [[TMP0]], ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT:    store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr
```

```
 %arg) #4 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable
; TUNIT-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR3]] {
; TUNIT-NEXT:  bb:
; TUNIT-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 32 dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT:    [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; TUNIT-NEXT:    call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR6]]
; TUNIT-NEXT:    [[TMP4:%.*]]
 = load <8 x i64>, ptr [[TMP2]], align 64
; TUNIT-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT:    ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable
; CGSCC-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CGSCC-SAME: (ptr nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]]) #[[ATTR3]] {
; CGSCC-NEXT:  bb:
; CGSCC-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; CGSCC-NEXT:    [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; CGSCC-NEXT:    call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr noalias nocapture nofree noundef
 nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR6]]
; CGSCC-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; CGSCC-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}
```

```
; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr %arg, ptr readonly %arg1) #4 {
;
; CHECK: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (ptr noalias
 nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]]) #[[ATTR3]] {
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; CHECK-NEXT:    store <8 x i64> [[TMP0]], ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1_PRIV]], align 64
; CHECK-NEXT:    store <8 x i64> [[TMP]], ptr [[ARG]], align 64
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr %arg) #3 {
;
; TUNIT: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable
; TUNIT-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; TUNIT-SAME: (ptr nocapture nofree writeonly [[ARG:%.*]]) #[[ATTR3]] {
; TUNIT-NEXT:  bb:
; TUNIT-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; TUNIT-NEXT:    [[TMP2:%.*]]
 = alloca <8 x i64>, align 32
; TUNIT-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 32 dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; TUNIT-NEXT:    [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; TUNIT-NEXT:    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) #[[ATTR6]]
; TUNIT-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; TUNIT-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; TUNIT-NEXT:    ret void
;
; CGSCC: Function Attrs: inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable
; CGSCC-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CGSCC-SAME: (ptr nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
```

```
 #[[ATTR3]] {
; CGSCC-NEXT:  bb:
; CGSCC-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CGSCC-NEXT:    call void @llvm.memset.p0.i64(ptr noalias nocapture nofree noundef nonnull writeonly align 64
dereferenceable(64) [[TMP]], i8 noundef 0, i64 noundef 32, i1 noundef false) #[[ATTR5]]
; CGSCC-NEXT:    [[TMP0:%.*]] = load <8 x i64>, ptr [[TMP]], align 64
; CGSCC-NEXT:    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr noalias
nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
#[[ATTR6]]
; CGSCC-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 64
; CGSCC-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CGSCC-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr
 %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0.i64(ptr nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
"prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }
attributes
 #5 = { argmemonly nounwind }
;.
; TUNIT: attributes #[[ATTR0]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn
memory(argmem: readwrite) uwtable "min-legal-vector-width"="512" "prefer-vector-width"="512" "target-
features"="+avx512vl" }
; TUNIT: attributes #[[ATTR1]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn
memory(argmem: readwrite) uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-
features"="+avx512vl" }
; TUNIT: attributes #[[ATTR2]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn
```

```
memory(argmem: readwrite) uwtable "min-legal-vector-width"="256" "prefer-vector-width"="256" "target-features"="+avx512vl" }
; TUNIT: attributes #[[ATTR3]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx2" }
; TUNIT: attributes #[[ATTR4:[0-9]+]] = { nocallback
 nofree nounwind willreturn memory(argmem: write) }
; TUNIT: attributes #[[ATTR5]] = { nofree willreturn memory(write) }
; TUNIT: attributes #[[ATTR6]] = { nofree nosync nounwind willreturn }
;.
; CGSCC: attributes #[[ATTR0]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable "min-legal-vector-width"="512" "prefer-vector-width"="512" "target-features"="+avx512vl" }
; CGSCC: attributes #[[ATTR1]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx512vl" }
; CGSCC: attributes #[[ATTR2]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem: readwrite) uwtable "min-legal-vector-width"="256" "prefer-vector-width"="256" "target-features"="+avx512vl" }
; CGSCC: attributes #[[ATTR3]] = { inlinehint mustprogress nofree norecurse nosync nounwind willreturn memory(argmem:
 readwrite) uwtable "min-legal-vector-width"="512" "prefer-vector-width"="256" "target-features"="+avx2" }
; CGSCC: attributes #[[ATTR4:[0-9]+]] = { nocallback nofree nounwind willreturn memory(argmem: write) }
; CGSCC: attributes #[[ATTR5]] = { nofree willreturn memory(write) }
; CGSCC: attributes #[[ATTR6]] = { nofree nounwind willreturn }
;.
; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

; PowerPC SPE is a rare in-tree target that has the FP_TO_SINT node marked
; as Legal.

; Verify that fptosi(42.1) isn't simplified when the rounding mode is
; unknown.
; Verify that no gross errors happen.
; CHECK-LABEL: @f20
; COMMON: cfdctsiz
define i32 @f20(double %a) strictfp {
entry:
 %result = call i32 @llvm.experimental.constrained.fptosi.i32.f64(double 42.1,
                                metadata !"fpexcept.strict")
                                strictfp
 ret i32 %result
}

@llvm.fp.env = thread_local global i8 zeroinitializer, section "llvm.metadata"
declare i32 @llvm.experimental.constrained.fptosi.i32.f64(double, metadata)
```
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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s -passes="print<cost-model>" 2>&1 -disable-output -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=VEC256,AVX
; RUN: opt < %s -passes="print<cost-model>" 2>&1 -disable-output -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-prefixes=VEC256,AVX512VL256
; RUN: opt < %s -passes="print<cost-model>" 2>&1 -disable-output -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-prefixes=AVX512VL512
; RUN: opt < %s -passes="print<cost-model>" 2>&1 -disable-output -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=VEC256,SKX256
; RUN: opt < %s -passes="print<cost-model>" 2>&1 -disable-output -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=SKX512

define
 void @zext256() "min-legal-vector-width"="256" {
; AVX-LABEL: 'zext256'
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'zext256'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>

; AVX512VL256-NEXT: Cost
 Model: Found an estimated cost of 2 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction:
 %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT: Cost Model: Found an estimated
 cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = zext <8 x i16> undef to <8 x i64>

```
 %B = zext <8 x i32> undef to <8 x i64>
 %C = zext <16 x i8> undef to <16 x i32>
 %D = zext <16 x i16> undef to <16 x i32>
 %E = zext <32 x i8> undef to <32 x i16>
 ret void
}

define void @zext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'zext512'
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 5 for instruction: %B = zext <8 x i32>
 undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 5 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'zext512'
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to
<16 x i32>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost
 of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'zext512'
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to
<16 x i32>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to
<16 x i32>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8
 x i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
```

```
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext512'
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16
 x i16> undef to <16 x i32>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = zext <8 x i16> undef to <8 x i64>
 %B = zext <8 x i32> undef to <8 x i64>
 %C = zext <16 x i8> undef to <16 x i32>
 %D = zext <16 x i16> undef to <16 x i32>
 %E = zext <32 x i8> undef to <32 x i16>
 ret void
}

define void @sext256() "min-legal-vector-width"="256" {
; AVX-LABEL: 'sext256'
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 5 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found
 an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 5 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'sext256'
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
```

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>

```
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = sext <8 x i8> undef to <8 x i64>
 %B = sext <8 x i16> undef to <8 x i64>
 %C = sext <8 x i32> undef to <8 x i64>
 %D = sext <16 x i8> undef to <16 x i32>
 %E = sext <16 x i16> undef to <16 x i32>
 %F = sext <32 x i8> undef to <32 x i16>
 ret void
}

define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found
 an estimated cost of 4 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 5 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 5 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL256-LABEL: 'sext512'
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL256-NEXT:
  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to
<16 x i32>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to
<32 x i16>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext512'
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8
x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to
<8 x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to
<8 x i64>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to
<16 x i32>
```

```
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost
 of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to
<32 x i16>
; AVX512VL512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'sext512'
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX256-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX256-NEXT:  Cost
 Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext512'
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x
i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x
i64>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x
i32>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x
i32>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x
i16>
; SKX512-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = sext <8 x i8> undef to <8 x i64>
 %B = sext <8 x i16> undef to <8 x i64>
 %C = sext <8 x i32> undef to <8 x i64>
 %D = sext <16 x i8>
 undef to <16 x i32>
 %E = sext <16 x i16> undef to <16 x i32>
 %F = sext <32 x i8> undef to <32 x i16>
 ret void
}

define void @trunc256() "min-legal-vector-width"="256" {
; VEC256-LABEL: 'trunc256'
; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x
```

i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; VEC256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'trunc256'
;
 AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'trunc256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated
 cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
 %A = trunc <8 x i64> undef to <8 x i32>
 %B = trunc <8 x i64> undef to <8 x i16>
 %C = trunc <8 x i64> undef to <8 x i8>
 %D = trunc <16 x i32> undef to <16 x i16>

```
 %E = trunc <16 x i32> undef to <16 x i8>
 %F = trunc <32 x i16> undef to <32 x i8>
 ret void
}

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'zext256_vXi1'
; AVX-NEXT:  Cost Model: Found
 an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x
i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %V8i64 = zext <8 x i1> undef to <8 x
i64>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = zext <4 x i1> undef to <4 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = zext <8 x i1> undef to <8 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = zext <16 x i1> undef to <16 x
i32>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x
i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x
i16>
; AVX-NEXT:
  Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x
i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x
i16>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x
i8>
; AVX-NEXT:  Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x
i8>
; AVX-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef
 to <64 x i8>
; AVX-NEXT:  Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'zext256_vXi1'
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef
to <2 x i64>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef
to <4 x i64>
; AVX512VL256-NEXT:  Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef
```

to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT:
 Cost Model: Found an estimated cost of 5 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 24 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated
 cost of 12 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'zext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of
 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8
 = zext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'zext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
;
 SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction:

%V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'zext256_vXi1'
; SKX512-NEXT: Cost
Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext
<4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>

; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated
 cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
 %V2i64 = zext <2 x i1> undef to <2 x i64>
 %V4i64 = zext <4 x i1> undef to <4 x i64>
 %V8i64 = zext <8 x i1> undef to <8 x i64>

 %V2i32 = zext <2 x i1> undef to <2 x i32>
 %V4i32 = zext <4 x i1> undef to <4 x i32>
 %V8i32 = zext <8 x i1> undef to <8 x i32>
 %V16i32 = zext <16 x i1> undef to <16 x i32>

 %V2i16 = zext <2 x i1> undef to <2 x i16>
 %V4i16 = zext <4 x i1> undef to <4 x i16>
 %V8i16 = zext <8 x i1> undef to <8 x i16>
 %V16i16 = zext <16 x i1> undef to <16 x i16>
 %V32i16 = zext <32 x i1> undef to <32 x i16>

 %V2i8 = zext <2 x i1> undef to <2 x i8>
 %V4i8 = zext <4 x i1> undef to <4 x i8>
 %V8i8 = zext <8 x i1> undef to <8 x i8>
 %V16i8 = zext <16 x i1> undef to <16 x i8>
 %V32i8 = zext <32 x i1> undef to <32 x i8>
 %V64i8 = zext <64 x i1> undef to <64 x i8>

 ret i32 undef
}

define i32 @sext256_vXi1()
 "min-legal-vector-width"="256" {
; AVX-LABEL: 'sext256_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>

; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost
 of 4 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for
 instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'sext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT:
  Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>

; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction:
 %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
;
 AVX512VL256-NEXT: Cost Model: Found an estimated cost of 21 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 42 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'sext256_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL512-NEXT: Cost Model: Found an estimated
 cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 =
 sext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = sext <32 x i1>
undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> undef to
<2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = sext <4 x i1> undef to
<4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> undef to
<8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = sext <16 x i1> undef
to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = sext <32 x i1> undef
to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = sext <64 x i1>
undef to <64 x i8>
; AVX512VL512-NEXT:
  Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'sext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = sext <8 x i1> undef to <8 x
i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x
i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef
 to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = sext <16 x i1> undef to
<16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x
i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to
<16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = sext <32 x i1> undef to
<32 x i16>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8
 = sext <2 x i1> undef to <2 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'sext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated
 cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model:
 Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>

; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
;
 SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
 %I64 = sext i1 undef to i64
 %V2i64 = sext <2 x i1> undef to <2 x i64>
 %V4i64 = sext <4 x i1> undef to <4 x i64>
 %V8i64 = sext <8 x i1> undef to <8 x i64>

 %I32 = sext i1 undef to i32
 %V2i32 = sext <2 x i1> undef to <2 x i32>
 %V4i32 = sext <4 x i1> undef to <4 x i32>
 %V8i32 = sext <8 x i1> undef to <8 x i32>
 %V16i32 = sext <16 x i1> undef to <16 x i32>

 %I16 = sext i1 undef to i16
 %V2i16 = sext <2 x i1> undef to <2 x i16>
 %V4i16 = sext <4 x i1> undef to <4 x i16>
 %V8i16 = sext <8 x i1> undef to <8 x i16>
 %V16i16 = sext <16 x i1> undef to <16 x i16>
 %V32i16 = sext <32 x i1> undef to <32 x i16>

 %I8 = sext i1 undef to i8
 %V2i8 = sext <2
 x i1> undef to <2 x i8>
 %V4i8 = sext <4 x i1> undef to <4 x i8>
 %V8i8 = sext <8 x i1> undef to <8 x i8>
 %V16i8 = sext <16 x i1> undef to <16 x i8>
 %V32i8 = sext <32 x i1> undef to <32 x i8>
 %V64i8 = sext <64 x i1> undef to <64 x i8>

 ret i32 undef
}

define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
; AVX-LABEL: 'trunc_vXi1'
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x

i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i64
 = trunc <64 x i64> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated
 cost of 0 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX-NEXT:
  Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL256-LABEL: 'trunc_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64>

undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model:
Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an
estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 16 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 32 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of
0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; AVX512VL512-LABEL: 'trunc_vXi1'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;

; SKX256-LABEL: 'trunc_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX256-NEXT:
  Cost Model: Found an estimated cost of 0 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction:
 %V4i16 = trunc <4 x i16> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX256-NEXT:
  Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = trunc <64 x i8> undef to

<64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'trunc_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction:
 %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
;
 SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to

<16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for
 instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to
<64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
 %V2i64 = trunc <2 x i64> undef to <2 x i1>
 %V4i64 = trunc <4 x i64> undef to <4 x i1>
 %V8i64 = trunc <8 x i64> undef to <8 x i1>
 %V16i64 = trunc <16 x i64> undef to <16 x i1>
 %V32i64 = trunc <32 x i64> undef to <32 x i1>
 %V64i64 = trunc <64 x i64> undef to <64 x i1>

 %V2i32 = trunc <2 x i32> undef to <2 x i1>
 %V4i32 = trunc <4 x i32> undef to <4 x i1>
 %V8i32 = trunc <8 x i32> undef to <8 x i1>
 %V16i32 = trunc <16 x i32> undef to <16 x i1>
 %V32i32 = trunc <32 x i32> undef to <32 x i1>
 %V64i32 = trunc <64 x i32> undef to <64 x i1>

 %V2i16 = trunc <2 x i16> undef to <2 x i1>
 %V4i16 = trunc <4 x i16> undef to <4 x i1>
 %V8i16 = trunc <8 x i16> undef to <8 x i1>
 %V16i16 = trunc <16 x i16> undef to
 <16 x i1>
 %V32i16 = trunc <32 x i16> undef to <32 x i1>
 %V64i16 = trunc <64 x i16> undef to <64 x i1>

 %V2i8 = trunc <2 x i8> undef to <2 x i1>
 %V4i8 = trunc <4 x i8> undef to <4 x i1>
 %V8i8 = trunc <8 x i8> undef to <8 x i1>
 %V16i8 = trunc <16 x i8> undef to <16 x i1>
 %V32i8 = trunc <32 x i8> undef to <32 x i1>
 %V64i8 = trunc <64 x i8> undef to <64 x i1>

 ret i32 undef
}
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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
 ObjectContainerBSDArchive.cpp

 LINK_LIBS
   lldbCore
   lldbHost
   lldbSymbol
 LINK_COMPONENTS
   Support
)
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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --
scrub-attributes
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible
; function attrubtes.

target triple = "x86_64-unknown-linux-gnu"

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr %arg, ptr
readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (ptr [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], ptr [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr %arg) #0 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME:
 (ptr [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, ptr [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(ptr %tmp2, ptr %tmp)
```

```
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; This should promote
define
 internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr %arg, ptr readonly
%arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], ptr [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, ptr [[TMP]]
; CHECK-NEXT:    call fastcc
 void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr [[TMP2]], <8 x i64>
[[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(ptr %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr %arg, ptr
```

```
readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]],
 ptr [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr %arg) #0 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, ptr [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align
 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(ptr %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr %arg, ptr
readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (ptr [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], ptr [[ARG]]
; CHECK-NEXT:    ret void
;
```

```
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT:
  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, ptr [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(ptr %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr
 %arg, ptr readonly %arg1) #1 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]], ptr readonly [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1]]
; CHECK-NEXT:    store <8 x i64> [[TMP]], ptr [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %arg) #2 {
```

```
; CHECK-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr
 [[TMP2]], ptr [[TMP]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %arg, ptr
readonly %arg1) #2 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]], ptr readonly [[ARG1:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = load <8 x i64>, ptr [[ARG1]]
; CHECK-NEXT:    store <8 x i64>
 [[TMP]], ptr [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %arg) #1 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr
[[TMP2]], ptr [[TMP]])
```

```
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64
 32, i1 false)
 call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr %arg, ptr readonly
%arg1) #3 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], ptr [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr %arg) #4 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:
   [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, ptr [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
```

```
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(ptr %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr %arg, ptr readonly
%arg1) #4 {
;
 CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    store <8 x i64> [[ARG1_VAL]], ptr [[ARG]]
; CHECK-NEXT:    ret void
;
bb:
 %tmp = load <8 x i64>, ptr %arg1
 store <8 x i64> %tmp, ptr %arg
 ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr %arg) #3 {
; CHECK-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; CHECK-SAME: (ptr [[ARG:%.*]])
; CHECK-NEXT:  bb:
; CHECK-NEXT:    [[TMP:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    [[TMP2:%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT:    call void @llvm.memset.p0.i64(ptr align 32 [[TMP]], i8 0, i64 32, i1 false)
; CHECK-NEXT:    [[TMP_VAL:%.*]] = load <8 x i64>, ptr [[TMP]]
; CHECK-NEXT:    call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT:    [[TMP4:%.*]] = load
 <8 x i64>, ptr [[TMP2]], align 32
; CHECK-NEXT:    store <8 x i64> [[TMP4]], ptr [[ARG]], align 2
; CHECK-NEXT:    ret void
;
bb:
 %tmp = alloca <8 x i64>, align 32
 %tmp2 = alloca <8 x i64>, align 32
 call void @llvm.memset.p0.i64(ptr align 32 %tmp, i8 0, i64 32, i1 false)
 call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(ptr %tmp2, ptr %tmp)
 %tmp4 = load <8 x i64>, ptr %tmp2, align 32
 store <8 x i64> %tmp4, ptr %arg, align 2
 ret void
}
```

```
; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %X, ptr %Y)
#2 {
; CHECK-LABEL: define
{{[^@]+}}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT:    [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT:    ret i32 [[C]]
;
 %A = load i32, ptr %X
 %B = load i32, ptr %Y
 %C = add i32 %A, %B
 ret i32 %C
}

define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr
 %B) #2 {
; CHECK-LABEL: define {{[^@]+}}@scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (ptr [[B:%.*]])
; CHECK-NEXT:    [[A:%.*]] = alloca i32
; CHECK-NEXT:    store i32 1, ptr [[A]]
; CHECK-NEXT:    [[A_VAL:%.*]] = load i32, ptr [[A]]
; CHECK-NEXT:    [[B_VAL:%.*]] = load i32, ptr [[B]]
; CHECK-NEXT:    [[C:%.*]] = call i32
@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:    ret i32 [[C]]
;
 %A = alloca i32
 store i32 1, ptr %A
 %C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(ptr %A, ptr %B)
 ret i32 %C
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %X, ptr %Y)
#2 {
; CHECK-LABEL: define
{{[^@]+}}@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]],
 i32 [[Y_VAL:%.*]])
; CHECK-NEXT:    [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT:    ret i32 [[C]]
;
 %A = load i32, ptr %X
 %B = load i32, ptr %Y
 %C = add i32 %A, %B
 ret i32 %C
}
```

```
define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %B) #2 {
; CHECK-LABEL: define {{[^@]+}}@scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256
; CHECK-SAME: (ptr [[B:%.*]])
; CHECK-NEXT:    [[A:%.*]] = alloca i32
; CHECK-NEXT:    store i32 1, ptr [[A]]
; CHECK-NEXT:    [[A_VAL:%.*]] = load i32, ptr [[A]]
; CHECK-NEXT:    [[B_VAL:%.*]] = load i32, ptr [[B]]
; CHECK-NEXT:    [[C:%.*]] = call i32
@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:    ret i32 [[C]]
;
 %A = alloca i32
 store i32 1, ptr %A
 %C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(ptr %A, ptr %B)
 ret i32 %C
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0.i64(ptr
 nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-
width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512"
"prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256"
"prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }
```

1.256 inotify 0.2.10

1.256.1 Available under license :

UNRECOGNIZED LICENSE; MD5 sum: 5cb13b05a253faf9cc933f3a438f1e2c

1.257 libkcrypto 1.20.1-6ubuntu2.6

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c

lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c

lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/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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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Built-By: build
Build-Jdk: 9.0.4

Implementation-Build-Id: 3.0.7-c8b5e20894f565780625d6f9b018ef7c458cd68
8, 2018-08-29T05:23:37-0700
Bnd-LastModified: 1535545434210
Bundle-Description: istack common utility code
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Bundle-ManifestVersion: 2
Bundle-Name: istack common utility code runtime
Bundle-SymbolicName: com.sun.istack.commons-runtime
Bundle-Vendor: Oracle Corporation
Bundle-Version: 3.0.7
Export-Package: com.sun.istack;version="3.0.7";uses:="javax.activation
,javax.xml.stream,org.xml.sax,org.xml.sax.helpers",com.sun.istack.loc
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Import-Package: javax.activation,javax.xml.namespace,javax.xml.stream,
org.xml.sax,org.xml.sax.helpers
Originally-Created-By: Apache Maven Bundle Plugin
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1.264 libxdmcp 1:1.1.3-0ubuntu6

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1.266 aopalliance-repackaged 2.5.0

1.267 libssl3t64 3.0.13-0ubuntu3.6

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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/AbstractEventLoop.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelFactory.java
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/netty-transport-4-1-118-final-sources-jar/io/netty/channel/PendingWriteQueue.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultChannelPromise.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/AbstractServerChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
*
 /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DatagramChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/bootstrap/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/FileRegion.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultFileRegion.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelInitializer.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java
*
 /netty-transport-4-1-118-final-sources-jar/io/netty/channel/FailedChannelFuture.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/group/CombinedIterator.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/Channel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelFutureListener.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/NioTask.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/oio/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultEventLoop.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
*
 /netty-transport-4-1-118-final-sources-jar/io/netty/channel/EventLoop.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelPipeline.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelException.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/NioEventLoop.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/EventLoopGroup.java
*

/netty-transport-4-1-118-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelMetadata.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/group/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/AbstractChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelHandlerContext.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
*
/netty-transport-4-1-118-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/bootstrap/Bootstrap.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelFuture.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
*
/netty-transport-4-1-118-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/local/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/embedded/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/nio/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/EventLoopException.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/local/LocalServerChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/local/LocalAddress.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
*
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/DatagramPacket.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelInboundHandler.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelPipelineException.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelOption.java
*

/netty-transport-4-1-118-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelPromise.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/CompleteChannelFuture.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/oio/package-info.java
*
/netty-transport-4-1-118-final-sources-jar/io/netty/channel/local/LocalChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/package-info.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
*
/netty-transport-4-1-118-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/internal/ChannelUtils.java

* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /netty-transport-4-1-118-final-sources-jar/io/netty/bootstrap/FailedChannel.java
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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
subtypes:
* <ul>
* <li>{@link
 ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
```

```
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object.  A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object.  Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
 or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*
 }
*     }
*     ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
```

```
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
 * <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*           {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the
 state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
```

```
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
 a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a  pipeline,  and how to handle
* the operation in your application.
*/
```

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* /netty-transport-4-1-118-final-sources-jar/io/netty/channel/ChannelHandler.java

1.269 slf4j 1.7.36

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1.270 color 1.18.0

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1.271 vulkan-loader 1.3.275.0-1build1

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1.272 go-jose-go-jose 4.1.3

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1.275 snake-yaml 2.2

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Found in path(s):
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/Mark.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/resolver/Resolver.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/CustomClassLoaderConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/MarkedYAMLException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/Node.java

* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/SerializerException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/inspector/TagInspector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/YAMLException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/Event.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/Yaml.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/CollectionNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/EmitterState.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/ArrayUtils.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/composer/ComposerException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/comments/CommentType.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/SequenceNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/ValueToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/NodeTuple.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/ArrayStack.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/StreamReader.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/composer/Composer.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/internal/Logger.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/NodeEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/ReaderException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DocumentEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/EnumUtils.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/ParserImpl.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/Emitter.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/Property.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/Serializer.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/SafeConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java

* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/ScannerException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/Emitable.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/AliasEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CollectionStartEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/AliasToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/emitter/EmitterException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/NodeId.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/BeanAccess.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/Production.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/ParserException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/AnchorNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/Constant.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/Scanner.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/ScalarToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/comments/CommentLine.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/CommentEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/Construct.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/ImplicitTuple.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/ScalarEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/Represent.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/Tag.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/StreamEndEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/Constructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/DumperOptions.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/MissingProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/nodes/MappingNode.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/TagToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/parser/Parser.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java

*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/ConstructorException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/reader/UnicodeReader.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/representer/Representer.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/util/UriEncoder.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/events/MappingStartEvent.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/TypeDescription.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/LoaderOptions.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/MethodProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java
*
 /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/tokens/Token.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/scanner/SimpleKey.java
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* /snakeyaml-2-2-sources-
jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java
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jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java
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/**
* A Base64 encoder/decoder.
*
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
* Project home page: www.
* source-code.biz/base64coder/java
* Author: Christian d'Heureuse, Inventec Informatik AG, Zurich, Switzerland
* Multi-licensed: EPL / LGPL / GPL / AL / BSD.
*/

Found in path(s):
* /snakeyaml-2-2-sources-jar/org/yaml/snakeyaml/external/biz/base64Coder/Base64Coder.java

1.276 libbrotli1 1.1.0-2build2

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1.277 pgx 5.7.2

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1.278 gofork 1.7.6

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1.279 txw2 3.0.2

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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri
* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
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* License: Apache-2.0
* Project: https://maven.apache.org/shared/file-management/
* Source:
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* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-compat/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2

maven-core
(3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-core/index.html
* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0

* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source:
  https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

maven-plugin-api (3.5.2)

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maven-resolver-api (1.1.1)

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maven-resolver-transport-file (1.1.1)

* License: Apache-2.0
* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)

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maven-settings
(3.5.2)

* License: Apache-2.0
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

OSGi Service Platform Core Companion Code (6.0)

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plexus-archiver (3.5)

* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

plexus-io (3.0.0)

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Sax (0.2)

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* Project: http://www.megginson.com/downloads/SAX/
* Source: http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

* License: Apache-2.0 AND (MIT OR GPL-1.0+)
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

* License: Pending
*
 Project: https://maven.apache.org/wagon/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0

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1.280 hikaricp-java7 2.4.13

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Found in path(s):

```
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/pool/HikariPool.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/metrics/dropwizard/CodaHaleMetricsTracker.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/metrics/MetricsTracker.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
*
 /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/HikariJNDIFactory.java
* /hikaricp-java7-2-4-13-sources-zip/com/zaxxer/hikari/metrics/dropwizard/CodahaleMetricsTrackerFactory.java
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1.283 go-toml 1.9.5

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localtime.go, localtime_test.go:

Originals:
  https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
  https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:
  * Renamed files from civil* to localtime*.

* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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1.284 media-types 10.1.0

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1.285 idna 3.11

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1.286 iso-codes 4.16.0-1

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1.287 pyproject-hooks 1.0.0

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1.293 emacsen-common 3.0.5

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1.294 woff2 1.0.2-2build1

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1.295 jersey-media-jaxb 2.39

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1.296 pycparser 2.23

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1.300 gst-plugins-good 1.24.2-1ubuntu1.2

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1.304 libgudev 1:238-5ubuntu1

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1.305 queue 1.1.0

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1.306 pq 1.10.9

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```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
```

```
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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1.307 idna 15.0.0

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1.308 libxfixes 1:6.0.0-2build1

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1.309 quartz 2.3.2

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* /jline-3-26-1-sources-jar/org/jline/console/CmdDesc.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/osx/OsXNativePty.java
* /jline-3-26-1-sources-jar/org/jline/reader/EndOfFileException.java
* /jline-3-26-1-sources-jar/org/jline/reader/LineReaderBuilder.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/JansiTerminalProvider.java
* /jline-3-26-1-sources-jar/org/jline/console/CmdLine.java
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/jline-3-26-1-sources-jar/org/jline/widget/AutopairWidgets.java
* /jline-3-26-1-sources-jar/org/jline/utils/Log.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/DefaultParser.java

* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/win/NativeWinSysTerminal.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/osx/CLibrary.java
* /jline-3-26-1-sources-jar/org/jline/utils/Display.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/JniTerminalProvider.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/linux/CLibrary.java
* /jline-3-26-1-sources-jar/org/jline/reader/CompletionMatcher.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/ReaderUtils.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/solaris/CLibrary.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/win/JnaWinSysTerminal.java
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* /jline-3-26-1-sources-jar/org/jline/utils/AttributedStringBuilder.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/KillRing.java
* /jline-3-26-1-sources-jar/org/jline/utils/NonBlockingInputStream.java
* /jline-3-26-1-sources-jar/org/jline/reader/MaskingCallback.java
* /jline-3-26-1-sources-jar/org/jline/utils/Curses.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /jline-3-26-1-sources-jar/org/jline/reader/History.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/win/Kernel32.java
*
 /jline-3-26-1-sources-jar/org/jline/reader/Completer.java
* /jline-3-26-1-sources-jar/org/jline/style/StyleExpression.java
* /jline-3-26-1-sources-jar/org/jline/utils/NonBlockingReader.java
* /jline-3-26-1-sources-jar/org/jline/utils/NonBlockingReaderImpl.java
* /jline-3-26-1-sources-jar/org/jline/style/StyleSource.java
* /jline-3-26-1-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java
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* /jline-3-26-1-sources-jar/org/jline/utils/InfoCmp.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/AbstractPty.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/completer/StringsCompleter.java
* /jline-3-26-1-sources-jar/org/jline/builtins/Tmux.java
* /jline-3-26-1-sources-jar/org/jline/builtins/ConfigurationPath.java
* /jline-3-26-1-sources-jar/org/jline/reader/Candidate.java
* /jline-3-26-1-sources-jar/org/jline/utils/Status.java
* /jline-3-26-1-sources-jar/org/jline/reader/Editor.java
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#
class = org.jline.terminal.impl.ffm.FfmTerminalProvider
```

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* /jline-3-26-1-sources-jar/org/jline/reader/impl/InputRC.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/AbstractWindowsTerminal.java
* /jline-3-26-1-sources-jar/org/jline/builtins/Commands.java
* /jline-3-26-1-sources-jar/org/jline/widget/TailTipWidgets.java
* /jline-3-26-1-sources-jar/org/jline/widget/Widgets.java
* /jline-3-26-1-sources-jar/org/jline/console/ConsoleEngine.java
* /jline-3-26-1-sources-jar/org/jline/reader/LineReader.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/LineReaderImpl.java
* /jline-3-26-1-sources-jar/org/jline/builtins/Less.java
* /jline-3-26-1-sources-jar/org/jline/console/impl/SystemRegistryImpl.java
*
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class = org.jline.terminal.impl.exec.ExecTerminalProvider
```

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 /jline-3-26-1-sources-jar/org/jline/builtins/telnet/TelnetIO.java
* /jline-3-26-1-sources-jar/org/jline/builtins/telnet/ConnectionEvent.java
* /jline-3-26-1-sources-jar/org/jline/builtins/telnet/ConnectionManager.java
* /jline-3-26-1-sources-jar/org/jline/builtins/telnet/Connection.java
* /jline-3-26-1-sources-jar/org/jline/builtins/telnet/PortListener.java
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* /jline-3-26-1-sources-jar/org/jline/jansi/AnsiColors.java
* /jline-3-26-1-sources-jar/org/jline/jansi/AnsiRenderer.java
* /jline-3-26-1-sources-jar/org/jline/jansi/AnsiType.java
* /jline-3-26-1-sources-jar/org/jline/jansi/io/WindowsAnsiProcessor.java
* /jline-3-26-1-sources-jar/org/jline/nativ/Kernel32.java
* /jline-3-26-1-sources-jar/org/jline/jansi/io/ColorsAnsiProcessor.java
* /jline-3-26-1-sources-jar/org/jline/jansi/io/FastBufferedOutputStream.java
* /jline-3-26-1-sources-jar/org/jline/jansi/AnsiPrintStream.java
* /jline-3-26-1-sources-jar/org/jline/jansi/Ansi.java
* /jline-3-26-1-sources-jar/org/jline/nativ/CLibrary.java
*
 /jline-3-26-1-sources-jar/org/jline/utils/FastBufferedOutputStream.java
* /jline-3-26-1-sources-jar/org/jline/jansi/AnsiMain.java
* /jline-3-26-1-sources-jar/org/jline/jansi/io/AnsiProcessor.java
* /jline-3-26-1-sources-jar/org/jline/jansi/WindowsSupport.java
* /jline-3-26-1-sources-jar/org/jline/jansi/io/Colors.java

* /jline-3-26-1-sources-jar/org/jline/jansi/io/AnsiOutputStream.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/ffm/Kernel32.java
* /jline-3-26-1-sources-jar/org/jline/jansi/AnsiConsole.java
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* /jline-3-26-1-sources-jar/org/jline/reader/impl/CompletionMatcherImpl.java
* /jline-3-26-1-sources-jar/org/jline/builtins/Completers.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/DefaultHighlighter.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/AbstractTerminal.java
* /jline-3-26-1-sources-jar/org/jline/reader/Parser.java
* /jline-3-26-1-sources-jar/org/jline/terminal/TerminalBuilder.java
* /jline-3-26-1-sources-jar/org/jline/builtins/Nano.java
* /jline-3-26-1-sources-jar/org/jline/utils/AttributedCharSequence.java
* /jline-3-26-1-sources-jar/org/jline/reader/Highlighter.java
*
 /jline-3-26-1-sources-jar/org/jline/builtins/Styles.java
* /jline-3-26-1-sources-jar/org/jline/builtins/ConsoleOptionGetter.java
* /jline-3-26-1-sources-jar/org/jline/builtins/TTop.java
* /jline-3-26-1-sources-jar/org/jline/console/impl/ConsoleEngineImpl.java
* /jline-3-26-1-sources-jar/org/jline/reader/PrintAboveWriter.java
* /jline-3-26-1-sources-jar/org/jline/console/ArgDesc.java
* /jline-3-26-1-sources-jar/org/jline/console/SystemRegistry.java
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* /jline-3-26-1-sources-jar/org/jline/style/NopStyleSource.java
* /jline-3-26-1-sources-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
* /jline-3-26-1-sources-jar/org/jline/style/StyleColor.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/win/JansiWinConsoleWriter.java
* /jline-3-26-1-sources-jar/org/jline/style/StyleResolver.java
* /jline-3-26-1-sources-jar/org/jline/builtins/ssh/ShellCommand.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/freebsd/FreeBsdNativePty.java
* /jline-3-26-1-sources-jar/org/jline/utils/WriterOutputStream.java
* /jline-3-26-1-sources-jar/org/jline/builtins/telnet/Telnet.java
*
 /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jna/win/JnaWinConsoleWriter.java
* /jline-3-26-1-sources-jar/org/jline/style/StyleBundleInvocationHandler.java
* /jline-3-26-1-sources-jar/org/jline/style/MemoryStyleSource.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/linux/LinuxNativePty.java
* /jline-3-26-1-sources-jar/org/jline/builtins/ssh/Ssh.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/solaris/SolarisNativePty.java
* /jline-3-26-1-sources-jar/org/jline/style/StyleBundle.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/linux/LinuxNativePty.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/SimpleMaskingCallback.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/solaris/SolarisNativePty.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/BufferImpl.java
* /jline-3-26-1-sources-jar/org/jline/utils/NonBlockingPumpReader.java
*
 /jline-3-26-1-sources-jar/org/jline/utils/NonBlockingPumpInputStream.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jansi/freebsd/FreeBsdNativePty.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /jline-3-26-1-sources-jar/org/jline/style/StyledWriter.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/win/NativeWinConsoleWriter.java
* /jline-3-26-1-sources-jar/org/jline/style/InterpolationHelper.java
* /jline-3-26-1-sources-jar/org/jline/utils/PumpReader.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/jni/osx/OsXNativePty.java
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* /jline-3-26-1-sources-jar/org/jline/console/Printer.java
* /jline-3-26-1-sources-jar/org/jline/console/impl/SystemHighlighter.java
* /jline-3-26-1-sources-jar/org/jline/builtins/Source.java
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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms

needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc,
NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
label_height, lh, lh
label_width, lw, lw
lines, lines, li
lines_of_memory, lm, lm
magic_cookie_glitch, xmc, sg
max_attributes, ma, ma
max_colors, colors, Co
max_pairs, pairs, pa
maximum_windows, wnum, MW
no_color_video, ncv, NC
num_labels, nlab, Nl
padding_baud_rate, pb, pb
virtual_terminal, vt, vt
width_status_line, wsl, ws
bit_image_entwining, bitwin, Yo
bit_image_type, bitype, Yp
buffer_capacity, bufsz, Ya
buttons, btns, BT
dot_horz_spacing, spinh, Yc
dot_vert_spacing, spinv, Yb
max_micro_address, maddr, Yd
max_micro_jump, mjump, Ye
micro_col_size, mcs, Yf
micro_line_size, mls, Yg
number_of_pins, npins, Yh
output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
output_res_vert_inch,
orvi, Yl
print_rate, cps, Ym
wide_char_size, widcs, Yn

acs_chars, acsc, ac
back_tab, cbt, bt
bell, bel, bl
carriage_return, cr, cr
change_char_pitch, cpi, ZA
change_line_pitch, lpi, ZB
change_res_horz, chr, ZC
change_res_vert, cvr, ZD
change_scroll_region, csr, cs
char_padding, rmp, rP
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clear_margins, mgc, MC
clear_screen, clear, cl
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clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cuf1, nd
cursor_to_ll, ll, ll
cursor_up, cuu1, up
cursor_visible, cvvis, vs
define_char, defc, ZE
delete_character, dch1, dc
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
ena_acs, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam,
SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG

enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smso, so
enter_subscript_mode, ssubm, ZN
enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
erase_chars, ech, ec
exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed
exit_doublewide_mode, rwidm, ZQ
exit_insert_mode, rmir, ei
exit_italics_mode, ritm, ZR
exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT
exit_shadow_mode, rshm,
ZU
exit_standout_mode, rmso, se
exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
exit_xon_mode, rmxon, RX
fixed_pause, pause, PA
flash_hook, hook, fh
flash_screen, flash, vb
form_feed, ff, ff
from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
init_1string, is1, i1
init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, Ic

initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
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key_btab, kcbt, kB
key_c1, kc1, K4
key_c3, kc3, K5
key_cancel, kcan, @2
key_catab, ktbc, ka
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key_close, kclo, @3
key_command, kcmd, @4
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key_create, kcrt, @6
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key_enter, kent, @8
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key_eos,
ked, kS
key_exit, kext, @9
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key_f41, kf41, FV
key_f42, kf42, FW
key_f43, kf43, FX
key_f44, kf44, FY
key_f45, kf45, FZ
key_f46, kf46, Fa
key_f47, kf47, Fb
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key_f49, kf49, Fd
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key_f51, kf51, Ff
key_f52, kf52, Fg
key_f53, kf53, Fh
key_f54, kf54, Fi
key_f55, kf55, Fj
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key_f57, kf57, Fl
key_f58, kf58,
Fm
key_f59, kf59, Fn
key_f6, kf6, k6
key_f60, kf60, Fo
key_f61, kf61, Fp
key_f62, kf62, Fq
key_f63, kf63, Fr
key_f7, kf7, k7
key_f8, kf8, k8
key_f9, kf9, k9
key_find, kfnd, @0

key_help, khlp, %1
key_home, khome, kh
key_ic, kich1, kI
key_il, kil1, kA
key_left, kcub1, kl
key_ll, kll, kH
key_mark, kmrk, %2
key_message, kmsg, %3
key_move, kmov, %4
key_next, knxt, %5
key_npage, knp, kN
key_open, kopn, %6
key_options, kopt, %7
key_ppage, kpp, kP
key_previous, kprv, %8
key_print, kprt, %9
key_redo, krdo, %0
key_reference, kref, &1
key_refresh, krfr, &2
key_replace, krpl, &3
key_restart, krst, &4
key_resume, kres, &5
key_right, kcuf1, kr
key_save, ksav, &6
key_sbeg, kBEG, &9
key_scancel, kCAN, &0
key_scommand, kCMD, *1
key_scopy, kCPY, *2
key_screate, kCRT, *3
key_sdc, kDC, *4
key_sdl, kDL, *5
key_select, kslt, *6
key_send, kEND, *7
key_seol, kEOL, *8
key_sexit, kEXT, *9
key_sf, kind, kF
key_sfind, kFND, *0
key_shelp, kHLP, #1
key_shome, kHOM, #2
key_sic, kIC, #3
key_sleft, kLFT, #4
key_smessage,
kMSG, %a
key_smove, kMOV, %b
key_snext, kNXT, %c
key_soptions, kOPT, %d
key_sprevious, kPRV, %e
key_sprint, kPRT, %f

key_sr, kri, kR
key_sredo, kRDO, %g
key_sreplace, kRPL, %h
key_sright, kRIT, %i
key_srsume, kRES, %j
key_ssave, kSAV, !1
key_ssuspend, kSPD, !2
key_stab, khts, kT
key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8
key_up, kcuu1, ku
keypad_local, rmkx, ke
keypad_xmit, smkx, ks
lab_f0, lf0, l0
lab_f1, lf1, l1
lab_f10, lf10, la
lab_f2, lf2, l2
lab_f3, lf3, l3
lab_f4, lf4, l4
lab_f5, lf5, l5
lab_f6, lf6, l6
lab_f7, lf7, l7
lab_f8, lf8, l8
lab_f9, lf9, l9
label_format, fln, Lf
label_off, rmln, LF
label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro,
mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF

parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Zi
pkey_key, pfkey, pk
pkey_local, pfloc, pl
pkey_xmit, pfx, px
plab_norm, pln, pn
print_screen, mc0, ps
prtr_non, mc5p, pO
prtr_off, mc4, pf
prtr_on, mc5, po
pulse, pulse, PU
quick_dial, qdial, QD
remove_clock, rmclk, RC
repeat_char, rep, rp
req_for_input, rfi, RF
reset_1string, rs1, r1
reset_2string, rs2, r2
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin,
smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq

start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
these_cause_cr, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv
bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispc, S1
end_bit_image_region, endbi, Yy
enter_pc_charset_mode,
smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsc, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7

set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, slines, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, elohlm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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* /jline-3-26-1-sources-jar/org/jline/reader/impl/completer/package-info.java
* /jline-3-26-1-sources-jar/org/jline/utils/package-info.java
* /jline-3-26-1-sources-jar/org/jline/reader/impl/history/package-info.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/package-info.java
* /jline-3-26-1-sources-jar/org/jline/reader/package-info.java
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* /jline-3-26-1-sources-jar/org/jline/nativ/JLineNativeLoader.java
* /jline-3-26-1-sources-jar/org/jline/nativ/OSInfo.java
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black
maroon
green
olive
navy
purple
teal
silver
grey
red
lime
yellow
blue
fuchsia
```

aqua
white
grey0
navyblue
darkblue
blue3
blue3a
blue1
darkgreen
deepskyblue4
deepskyblue4a
deepskyblue4b
dodgerblue3
dodgerblue2
green4
springgreen4
turquoise4
deepskyblue3
deepskyblue3a
dodgerblue1
green3
springgreen3
darkcyan
lightseagreen
deepskyblue2
deepskyblue1
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springgreen3a
springgreen2
cyan3
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springgreen1
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cyan2
cyan1
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purple3
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cadetbluea
skyblue3
steelblue1
chartreuse3a
palegreen3
seagreen3
aquamarine3
mediumturquoise
steelblue1a
chartreuse2
seagreen2
seagreen1
seagreen1a
aquamarine1
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grey82
grey85

grey89
grey93

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* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml
* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-terminal-jni/pom.xml
* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-reader/pom.xml
* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-terminal-ffm/pom.xml
* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-terminal-jna/pom.xml
* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-builtins/pom.xml
* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-terminal-jansi/pom.xml
* /jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-remote-telnet/pom.xml
*
/jline-3-26-1-sources-jar/META-INF/maven/org.jline/jline-style/pom.xml
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#

class = org.jline.terminal.impl.jna.JnaTerminalProvider

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* /jline-3-26-1-sources-jar/org/jline/terminal/spi/TerminalProvider.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/Diag.java
* /jline-3-26-1-sources-jar/org/jline/terminal/impl/exec/ExecTerminalProvider.java
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class = org.jline.terminal.impl.jansi.JansiTerminalProvider

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1.321 htop 3.3.0-4build1

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1.329 xstrings 1.5.0

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1.330 gson 2.10.1

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Manifest-Version: 1.0
Created-By: 11.0.16.1 (Azul Systems, Inc.)
Build-Jdk-Spec: 11
Bnd-LastModified: 1673019830620

Bundle-ContactAddress: https://github.com/google/gson
Bundle-Description: Gson JSON library
Bundle-Developers: google;organization=Google;organizationUrl="https://w
ww.google.com"
Bundle-DocURL: https://github.com/google/gson/gson
Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICEN
SE-2.0.txt"
Bundle-ManifestVersion: 2
Bundle-Name: Gson
Bundle-RequiredExecutionEnvironment: JavaSE-1.7, JavaSE-1.8
Bundle-SCM: url="https://github.com/google/gson/gson/",connection="scm:g
it:https://github.com/google/gson.git/gson",developer-connection="scm:g
it:git@github.com:google/gson.git/gson",tag="gson-parent-2.10.1"
Bundle-SymbolicName: com.google.gson
Bundle-Vendor: Google Gson Project
Bundle-Version: 2.10.1
Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.googl
e.gson.stream";version="2.10.1",com.google.gson.annotations;version="2.
 10.1",com.google.gson.reflect;version="2.10.1",com.google.gson.stream;v
ersion="2.10.1"
Import-Package: sun.misc;resolution:=optional,com.google.gson.annotation
s
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.4.0.202211291949
Multi-Release: true

Found in path(s):
* /gson-2-10-1-jar/META-INF/MANIFEST.MF

1.331 ubuntu-themes 24.04-0ubuntu1

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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

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Source: http://sourceforge.net/projects/e2fsprogs
Comment:
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Theodore Ts'o
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
#
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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1.333 libgpg-error 1.47-3build2.1

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code means all the source code for all modules it contains, plus any
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1.334 redisson-tomcat-9 3.45.0

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Found in path(s):
* /redisson-tomcat-9-3-45-0-sources-jar/org/redisson/tomcat/AttributesPutAllMessage.java
* /redisson-tomcat-9-3-45-0-sources-jar/org/redisson/tomcat/SessionDestroyedMessage.java
* /redisson-tomcat-9-3-45-0-sources-jar/org/redisson/tomcat/AttributesClearMessage.java
* /redisson-tomcat-9-3-45-0-sources-jar/org/redisson/tomcat/UpdateValve.java
*
/redisson-tomcat-9-3-45-0-sources-jar/org/redisson/tomcat/SessionCreatedMessage.java
* /redisson-tomcat-9-3-45-0-sources-jar/org/redisson/tomcat/AttributeUpdateMessage.java
* /redisson-tomcat-9-3-45-0-sources-jar/org/redisson/tomcat/JndiRedissonSessionManager.java
* /redisson-tomcat-9-3-45-0-sources-jar/org/redisson/tomcat/RedissonSessionManager.java
* /redisson-tomcat-9-3-45-0-sources-jar/org/redisson/tomcat/AttributeRemoveMessage.java
* /redisson-tomcat-9-3-45-0-sources-jar/org/redisson/tomcat/UsageValve.java
* /redisson-tomcat-9-3-45-0-sources-jar/org/redisson/tomcat/AttributeMessage.java
* /redisson-tomcat-9-3-45-0-sources-jar/org/redisson/tomcat/RedissonSession.java

1.335 packaging 23.1

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1.336 attr 1:2.5.2-1build1.1

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* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampleComp.cc
*
 /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/partitionY.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/monoTriangulation.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampleCompBot.cc
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* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/gridWrap.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/dataTransform.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/glinterface.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/partitionX.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampledLine.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/incurveeval.cc
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* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampleMonoPoly.cc
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AC_PREREQ([2.60])
AC_INIT([glu],
     [9.0.2],
     [https://gitlab.freedesktop.org/mesa/glu/issues])
AC_CONFIG_SRCDIR([Makefile.am])
AC_CANONICAL_HOST

AM_INIT_AUTOMAKE([dist-xz foreign subdir-objects])

LT_PREREQ([2.2])
LT_INIT

dnl Check for progs
AC_PROG_CPP
AC_PROG_CC
AC_PROG_CXX

dnl Enable quiet compiles on automake 1.11.
m4_ifdef([AM_SILENT_RULES], [AM_SILENT_RULES([yes])])

AC_ARG_ENABLE(debug,
          AS_HELP_STRING([--enable-debug],
            [Enable debugging information]),
          [if test x$enableval = xyes; then
```

```
            CFLAGS="$CFLAGS -g -O0 -DDEBUG"
            CXXFLAGS="$CXXFLAGS -g -O0 -DDEBUG"; else
            CFLAGS="$CFLAGS -DNDEBUG"
            CXXFLAGS="$CXXFLAGS -DNDEBUG"; fi],
           [CFLAGS="$CFLAGS -DNDEBUG"

        CXXFLAGS="$CXXFLAGS -DNDEBUG"])

dnl Make sure the pkg-config macros are defined
m4_ifndef([PKG_PROG_PKG_CONFIG],
  [m4_fatal([Could not locate the pkg-config autoconf macros.
 These are usually located in /usr/share/aclocal/pkg.m4. If your macros
 are in a different location, try setting the environment variable
 ACLOCAL="aclocal -I/other/macro/dir" before running autoreconf.])])
PKG_PROG_PKG_CONFIG()

AC_ARG_ENABLE(libglvnd,
          AS_HELP_STRING([--enable-libglvnd],
            [Enable use of libglvnd]),
          [LIBGLVND="$enableval"],
          [LIBGLVND=no])

AC_ARG_ENABLE(osmesa,
          AS_HELP_STRING([--enable-osmesa],
            [Enable use of OSMesa instead of libGL]),
          [OSMESA="$enableval"],
          [OSMESA=no])

dnl Get the pkg-config definitions for libglvnd/OSMesa/libGL.  We include a
dnl fallback path for implementations that don't provide a .pc file
AS_IF([test "x$LIBGLVND" = "xyes"], [
  GLU_REQUIRES="libglvnd"
   PKG_CHECK_MODULES(LIBGLVND, [opengl], [], [
     AC_CHECK_HEADER([GL/gl.h],
                 [],
                 AC_MSG_ERROR([libglvnd GL not found]))
     AC_CHECK_LIB([OpenGL],
                [glBegin],
                [GL_LIBS=-lOpenGL],
                AC_MSG_ERROR([libglvnd libOpenGL required]))
  ])
], [test "x$OSMESA" = "xyes"], [
  GLU_REQUIRES="osmesa"
  PKG_CHECK_MODULES(OSMESA, [osmesa], [], [
     AC_CHECK_LIB([OSMesa],
                [glBegin],
                [OSMESA_LIBS=-lOSMesa],
                AC_MSG_ERROR([OSMesa required]))
```

```
  ])
], [
  GLU_REQUIRES="gl"
  PKG_CHECK_MODULES(GL, [gl], [], [
    AC_CHECK_HEADER([GL/gl.h],
                    [],
                    AC_MSG_ERROR([GL not found]))
    AC_CHECK_LIB([GL],
                 [glBegin],
                 [GL_LIBS=-lGL],
                 AC_MSG_ERROR([GL required]))
  ])
])

AC_SUBST([GLU_REQUIRES])

dnl
 Set up C warning and visibility flags.
if test "x$GCC" = xyes; then
  WARNCFLAGS="-Wall"

  # Enable -fvisibility=hidden if using a gcc that supports it
  save_CFLAGS="$CFLAGS"
  AC_MSG_CHECKING([whether $CC supports -fvisibility=hidden])
  VISIBILITY_CFLAGS="-fvisibility=hidden"
  CFLAGS="$CFLAGS $VISIBILITY_CFLAGS"
  AC_LINK_IFELSE([AC_LANG_PROGRAM()], AC_MSG_RESULT([yes]),
                 [VISIBILITY_CFLAGS=""; AC_MSG_RESULT([no])]);

  # Restore CFLAGS; VISIBILITY_CFLAGS are added to it where needed.
  CFLAGS=$save_CFLAGS

  if test "x$GXX" = xyes; then
    WARNCXXFLAGS="-Wall"

    # Enable -fvisibility=hidden if using a gcc that supports it
    save_CXXFLAGS="$CXXFLAGS"
    AC_MSG_CHECKING([whether $CXX supports -fvisibility=hidden])
    VISIBILITY_CXXFLAGS="-fvisibility=hidden"
    CXXFLAGS="$CXXFLAGS $VISIBILITY_CXXFLAGS"
    AC_LANG_PUSH([C++])
    AC_LINK_IFELSE([AC_LANG_PROGRAM()], AC_MSG_RESULT([yes]),

      [VISIBILITY_CXXFLAGS=""; AC_MSG_RESULT([no])]);
    AC_LANG_POP([C++])

    # Restore CXXFLAGS; VISIBILITY_CXXFLAGS are added to it where needed.
    CXXFLAGS=$save_CXXFLAGS
```

```
  fi
else
  AC_CHECK_DECL([__SUNPRO_C], [SUNCC="yes"], [SUNCC="no"])
  if test "x$SUNCC" = "xyes"; then
    WARNCFLAGS="-v"
    WARNCXXFLAGS="-v"
  fi
fi
AC_SUBST([WARNCFLAGS])
AC_SUBST([WARNCXXFLAGS])
AC_SUBST([VISIBILITY_CFLAGS])
AC_SUBST([VISIBILITY_CXXFLAGS])

AC_OUTPUT([
  Makefile
  glu.pc
])
```

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* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/mystdio.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/cachingeval.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/gridtrimvertex.h
*
 /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/memalloc.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/glsurfeval.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/trimvertex.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/normal.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/tessmono.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/tess.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/arcsorter.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/types.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/tessmono.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/flistsorter.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampledLine.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/partitionY.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/partitionX.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/uarray.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/monoTriangulation.h
*
 /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/dict.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/zlassert.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/varray.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libutil/registry.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/dataTransform.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libutil/error.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/mystdio.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/dict.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/mesh.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/include/GL/glu.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/patchlist.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libutil/project.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/jarcloc.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampleMonoPoly.h
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 /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/geom.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/renderhints.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/basiccrveval.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/defines.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/bufpool.h

* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/priorityq.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/curvelist.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/mystdlib.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/bezierPatchMesh.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/primitiveStream.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/bezierarc.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/basicsurfeval.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/monoPolyPart.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/rectBlock.h
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* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/monotonizer.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/arc.h
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* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/priorityq-heap.h
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* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/glimports.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/bin.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/mesh.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/bezierEval.h
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 /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/mystdlib.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/priorityq.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/displaymode.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/flist.h
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* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/directedLine.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/hull.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/trimline.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libutil/glue.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/memalloc.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/mapdesc.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/knotvector.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/nurbsconsts.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libutil/quad.c
*
 /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/glcurveval.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/gridWrap.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/mymath.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/maplist.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/bezierPatch.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampleComp.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/polyDBG.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/gridline.h

* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/normal.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/myassert.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampleCompRight.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/subdivider.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/render.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/polyUtil.h
*
 /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/nurbstess.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/trimregion.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/sampleCompTop.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/definitions.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/curve.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/sorter.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/displaylist.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/render.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/quilt.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/backend.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/gridvertex.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/pwlarc.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libutil/gluint.h
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* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/quicksort.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/glrenderer.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/glimports.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/geom.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/monoChain.h
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* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/mysetjmp.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/priorityq-sort.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libtess/sweep.c
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/reader.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/mystring.h
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/simplemath.h
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** Window System(R) (Version 1.3), released October 19, 1998. This software
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* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/arctess.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/mapdescv.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/varray.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/sorter.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/renderhints.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/reader.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/hull.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/trimregion.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/nurbsinterfac.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/knotvector.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/slicer.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/cachingeval.cc
*
/libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/backend.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/trimline.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/bufpool.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/flistsorter.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/curvesub.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/ccw.cc

* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/uarray.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/trimvertpool.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/glsurfeval.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/internals/coveandtiler.cc
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*
 /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/bezierEval.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/interface/glrenderer.cc
* /libglu-9-0-2-orig-1-tar-gz/glu-9.0.2/src/libnurbs/nurbtess/polyDBG.cc

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular expression support

regexp/jimregexp.[ch]:

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Subsequently modified by:

1986 John Gilmore hoptoad!gnu
1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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regexp/utf8.[ch] (see regexp/LICENSE):

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1.344 protobuf-go 1.36.10

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1.345 slang 2.3.3-3build2

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* /netty-transport-native-unix-common-4-1-107-final-sources-jar/netty_unix_limits.c
* /netty-transport-native-unix-common-4-1-107-final-sources-jar/io/netty/channel/unix/Limits.java
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 /netty-transport-native-unix-common-4-1-107-final-sources-jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /netty-transport-native-unix-common-4-1-107-final-sources-jar/netty_unix_limits.h
* /netty-transport-native-unix-common-4-1-107-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
* /netty-transport-native-unix-common-4-1-107-final-sources-jar/netty_unix_util.c
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* /netty-transport-native-unix-common-4-1-107-final-sources-jar/netty_unix_socket.c
* /netty-transport-native-unix-common-4-1-107-final-sources-jar/io/netty/channel/unix/FileDescriptor.java
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jar/io/netty/channel/unix/DomainSocketChannelConfig.java
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1.355 xdg-user-dirs 0.18-1build1

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1.359 letsencrypt-pkcs11key 4.0.0

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1.360 fastjson 1.6.4

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1.361 go-colorable 0.1.14

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1.362 opus 1.4-1build1

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1.363 grpc-go 1.73.0

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Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
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org.apache.tomcat.util.json.JSONParser.jj is
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For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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- web-app_3_1.xsd
- web-common_3_1.xsd
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- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
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may be obtained from:
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- javaee_web_services_client_1_3.xsd
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- web-common_3_1.xsd
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1.366 aescts 2.0.0

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1.367 go-reuseport 1.5.0

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1.368 javax-ws-rs-api 2.0

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* /junixsocket-common-2-10-0-sources-1-jar/org/newsclub/net/unix/AFGenericSocketFactory.java
* /junixsocket-common-2-10-0-sources-1-jar/org/newsclub/net/unix/BuildProperties.java

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* /javassist-3-29-0-ga-sources-jar/javassist/runtime/Inner.java
* /javassist-3-29-0-ga-sources-jar/javassist/convert/TransformCall.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/analysis/Analyzer.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/EnclosingMethodAttribute.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/AnnotationDefaultAttribute.java
*
 /javassist-3-29-0-ga-sources-jar/javassist/util/proxy/SecurityActions.java
* /javassist-3-29-0-ga-sources-jar/javassist/CtClassType.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/analysis/MultiType.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/AnnotationsAttribute.java
* /javassist-3-29-0-ga-sources-jar/javassist/tools/rmi/AppletServer.java
* /javassist-3-29-0-ga-sources-jar/javassist/compiler/ast/Declarator.java
* /javassist-3-29-0-ga-sources-jar/javassist/compiler/ProceedHandler.java
* /javassist-3-29-0-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /javassist-3-29-0-ga-sources-jar/javassist/CtNewWrappedConstructor.java
* /javassist-3-29-0-ga-sources-jar/javassist/CtConstructor.java
* /javassist-3-29-0-ga-sources-jar/javassist/expr/Cast.java
* /javassist-3-29-0-ga-sources-jar/javassist/convert/TransformAfter.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/ClassFilePrinter.java
* /javassist-3-29-0-ga-sources-jar/javassist/convert/TransformReadField.java
*
 /javassist-3-29-0-ga-sources-jar/javassist/CtNewMethod.java
* /javassist-3-29-0-ga-sources-jar/javassist/CodeConverter.java
* /javassist-3-29-0-ga-sources-jar/javassist/expr/FieldAccess.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/stackmap/MapMaker.java
* /javassist-3-29-0-ga-sources-jar/javassist/tools/Dump.java
* /javassist-3-29-0-ga-sources-jar/javassist/util/proxy/ProxyFactory.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/InstructionPrinter.java
* /javassist-3-29-0-ga-sources-jar/javassist/compiler/ast/NewExpr.java
* /javassist-3-29-0-ga-sources-jar/javassist/compiler/ast/Visitor.java
* /javassist-3-29-0-ga-sources-jar/javassist/ClassMap.java
* /javassist-3-29-0-ga-sources-jar/javassist/CannotCompileException.java
* /javassist-3-29-0-ga-sources-jar/javassist/CtMember.java
* /javassist-3-29-0-ga-sources-jar/javassist/expr/NewArray.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/annotation/NoSuchClassError.java
*
 /javassist-3-29-0-ga-sources-jar/javassist/CtNewClass.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/SignatureAttribute.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/Opcode.java
* /javassist-3-29-0-ga-sources-jar/javassist/bytecode/Bytecode.java

1.371 netty-resolver 4.1.118.Final

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* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java
* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/SimpleNameResolver.java
* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/AddressResolverGroup.java
* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/NoopAddressResolver.java
*
 /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/NameResolver.java
* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/package-info.java
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Found in path(s):
* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
*
 /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/InetNameResolver.java
* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/HostsFileParser.java
* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java

* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/AddressResolver.java
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Found in path(s):
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* /netty-resolver-4-1-118-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

1.372 coreutils 9.4-3ubuntu6.1

1.372.1 Available under license :

```
/* Extract the last component (base name) of a file name.

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

/* This file uses _GL_ATTRIBUTE_PURE.  */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
#endif

#include <stddef.h>

#ifndef
 DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif



/* Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME     RESULT
          "foo.c"      "foo.c"
          "foo/bar.c"  "bar.c"
```

```
           "/foo/bar.c"  "bar.c"
           "foo/bar/"    "bar/"
           "foo/bar//"   "bar//"
           "/"           ""
           "//"          ""
           ""            ""
 The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(),
 defined in <string.h>, does
      not consider trailing slashes to be part of the component:
           FILENAME      RESULT
           "foo/bar/"    ""
           "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
           FILENAME      RESULT
           "foo/bar/"    "bar"
           "foo/bar//"   "bar"
           "/"           "/"
           "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


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

#endif /* _BASENAME_LGPL_H */
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1.373 json-java 20131018

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1.374 blackmagic 1.0.4

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1.376 libcom-err 1.47.0-2.4~exp1ubuntu4.1

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

- trivial database library - private includes
-
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Upstream-Name: e2fsprogs
Upstream-Contact: Theodore Ts'o <tytso@mit.edu>
Source: http://sourceforge.net/projects/e2fsprogs
Comment:
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
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    Theodore Ts'o
    23-June-2007

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```
That's all there is to it!
#
# 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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modules/pam_unix/yppasswd.h
modules/pam_unix/yppasswd_xdr.c
debian/local/pam_getenv

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c
==========
--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c

```
@@ -348,6 +348,65 @@
   return PAM_SUCCESS;
}

+int display_legal(pam_handle_t *pamh)
+{
+   int retval = PAM_IGNORE, rc;
+   char *user = NULL;
+   char *dir = NULL;
+   char *flag = NULL;
+   struct passwd *pwd = NULL;
+   struct stat s;
+   int f;
+   /* Get the user name to determine if we need to print the disclaimer */
+   rc = pam_get_item(pamh, PAM_USER, &user);
+   if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+   {
+      PAM_MODUTIL_DEF_PRIVS(privs);
+
+
     /* Get the password entry */
+      pwd = pam_modutil_getpwnam (pamh, user);
+      if (pwd != NULL)
+      {
+         if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+            pam_syslog(pamh, LOG_ERR,
+                  "Unable to change UID to %d temporarily\n",
+                  pwd->pw_uid);
+            retval = PAM_SESSION_ERR;
+            goto finished;
+         }
+
+         if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+            goto finished;
+         if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+            goto finished;
+
+         if (stat(flag, &s) != 0)
+         {
+            int fd = open("/etc/legal", O_RDONLY, 0);
+            if (fd >= 0) {
+               try_to_display_fd(pamh, fd);
+               close(fd);
+            }
+            mkdir(dir, 0700);
+            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+
```

```
                S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+               if (f>=0) close(f);
+           }
+
+finished:
+           if (pam_modutil_regain_priv(pamh, &privs)) {
+               pam_syslog(pamh, LOG_ERR,
+                          "Unable to change UID back to %d\n", privs.old_uid);
+               retval = PAM_SESSION_ERR;
+           }
+
+           _pam_drop(flag);
+           _pam_drop(dir);
+       }
+   }
+   return retval;
+}
+
int pam_sm_open_session(pam_handle_t *pamh, int flags,
  int argc, const char **argv)
{
@@ -446,6 +505,9 @@
                        motd_dir_path_split, num_motd_dir_paths,
                        report_missing);

+   /* Display the legal disclaimer only if necessary */
+   retval = display_legal(pamh);
+
 out:
   _pam_drop(motd_path_copy);
   _pam_drop(motd_path_split);
```

1.381 libbsd 0.12.1-1build1.1

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1.382 go-multierror 1.1.1

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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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1.388 libcap-ng 0.8.4-2build2

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1.389 free-type 2.13.2+dfsg-1build3

1.389.1 Available under license :

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```
/*****************************************************************
*
*  grx11.c  graphics driver for X11.
*
```

```
*  This is the driver for displaying inside a window under X11,
*  used by the graphics utility of the FreeType test suite.
*
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```

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```
/*****************************************************************
*
*  grwin32.h  graphics driver for Win32 platform (header)
*
*  This is the driver for displaying inside a window under Win32,
*  used by the graphics utility of the FreeType test suite.
*
*  Written by Antoine Leca.
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```

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/ftinspect/meson.build
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/meson.build

* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/meson_options.txt
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/meson.build
No license file was found, but licenses were detected in source scan.

2023-08-25 Werner Lemberg <wl@gnu.org>

 * Version 2.13.2 released.
 ==========================

 Tag sources with 'VER-2-13-2'.

 * README: Updated.
 * meson.build: Updated.
 * man/*.1: Updated.

2023-08-25 Werner Lemberg <wl@gnu.org>

 Fix clang warnings.

 * graph/gblblit.c (gblender_glyph_upgray), src/ftmulti.c (Render_All): Add
   cast.
 * src/ftdump.c (get_english_name_entry): Initialize `name`.

2023-08-24 Werner Lemberg <wl@gnu.org>

 * subprojects/*.wrap: Updated.

2023-08-17 Hugh McMaster <hugh.mcmaster@outlook.com>

 ftlint.1: Instruct man(1) to run the groff `tbl` preprocessor

 The latest version of groff (1.23.0) emits a warning when it detects the
 use of table macros (.TS, .TE) with no .TW (table width) macro defined:

   tbl preprocessor failed, or it or soelim was not run; table(s) likely
   not rendered (TE macro called with TW register undefined).

 The warning occurs because the `tbl` preprocessor
 was not invoked by
 the `man` command. To fix the issue, we need to instruct man(1) to
 run the `tbl` preprocessor before rendering the source as text.

 This issue was detected by Debian's Lintian tool.

2023-08-13 Hugh McMaster <hmc@debian.org>

 * src/ftmulti.c: Miscellaneous spelling and readability fixes.

* Update comments.
* Fix a typo: dimentions -> dimensions.

2023-08-06 Charlie Jiang <w@chariri.moe>

[ftinspect] Fix default named instance handling.

Now the named instance selector no longer doubles the default named instance.
`FT_Get_Default_Named_Instance` is used to get the default NI index.
The default one is labeled as " (default)".

* src/ftinspect/widgets/tripletselector.cpp: Properly handle the new 1-based
named instance indices. Label the default NI correctly.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add `Engine::defualtNamedInstanceIndex`.

* src/ftinspect/engine/mmgx.cpp: Change comments.

2023-08-06 Charlie
Jiang <w@chariri.moe>

[ftinspect] Fix named instances switching.

* src/ftinspect/engine/mmgx.cpp, src/ftinspect/engine/mmgx.hpp:
Load the default values of MMGX axes from the named instance instead of
the global default one.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Switch the named instance using `FT_Set_Named_Instance` when loading
fonts.

2023-07-28 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (usage): Document the `-a` option.

2023-07-26 Charlie Jiang <w@chariri.moe>

[ftinspect] Fix the glyph index selector layout when the window resizes.

Fixes #26. When the window resizes, the invisible tabs don't get notified.
Therefore, when the active tab changes, we need to trigger a manual
relayouting of invisible tabs.

* src/ftinspect/widgets/glyphindexselector.hpp,
src/ftinspect/widgets/glyphindexselector.cpp:
Extract public method `relayoutNavigation` from `resizeEvent`.

* src/ftinspect/panels/abstracttab.hpp:
Add `relayout` virtual method.

* src/ftinspect/maingui.cpp: Call `AbstractTab::relayout` on the new tab
when the active tab changes.

* src/ftinspect/panels/singular.cpp, src/ftinspect/panels/singular.hpp,
src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
Implement `relayout` method and call `relayoutNavigation` of the glyph
index selector in `relayout`.

2023-07-26 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_MM_Info): Fix signedness mismatch.

2023-07-21 Jouk Jansen <joukj@hrem.nano.tudelft.nl>

* vms_make.com: Synchronize with similar changes in the FreeType library.

2023-07-16 Hin-Tak Leung <htl10@users.sourceforge.net>

src/rsvg-port.c: Correct usage of `FT_Bool` vs `gboolean` comparison.

`TRUE` in this context is from glib headers (`glib-2.0/glib/gmacros.h`),
imported indirectly from rsvg headers. It should not be used for comparison
with `FT_Bool` types. Other usages of `TRUE/FALSE` in this file is
okay.

2023-07-08 Hin-Tak Leung <htl10@users.sourceforge.net>

rsvg-port.c: Simplify usage of `rsvg_handle_render_*`.

* src/rsvg-port.c (rsvg_port_preset_slot): Remove usage of
`rsvg_handle_render_document` (and `rsvg_handle_render_cairo`). They are
functionally the same as `rsvg_handle_render_layer` (and
`rsvg_handle_render_cairo_sub`) with argument id set to NULL.

2023-07-08 Hin-Tak Leung <htl10@users.sourceforge.net>

* src/ttdebug.c (RunIns): Signature fix.

A somewhat similar change to what happened in the FreeType library:

commit 95d635eab1b08a0051de07b6c33067d2c1984848
Author: Werner Lemberg <wl@gnu.org>
Date: Sun May 7 08:34:32 2023 +0200

    [truetype] Signature fixes.

2023-06-24 Werner Lemberg <wl@gnu.org>

 * Version 2.13.1 released.
 ==========================

 Tag sources with 'VER-2-13-1'.

 * README: Updated.
 * meson.build: Updated.
 * man/*.1: Updated.
 * subprojects/zlib.wrap: Updated.

2023-06-24 Werner Lemberg <wl@gnu.org>

 * src/rsvg-port.c
 (rsvg_port_preset_slot): Fix C++ compilation warning.

2023-06-03 Hin-Tak Leung <htl10@users.sourceforge.net>

 Fix out-of-memory conditions with newer 'librsvg'.

 Excerpts from `rsvg_handle_get_intrinsic_dimensions` section in
 `librsvg/rsvg.h`:

 ```
 Before librsvg 2.54.0, the `out_has_width` and `out_has_height` arguments
 would be set to true or false depending on whether the SVG document actually
 had `width` and `height` attributes, respectively.

 However, since librsvg 2.54.0, `width` and `height` are now [geometry
 properties](https://www.w3.org/TR/SVG2/geometry.html) per the SVG2
 specification; they are not plain attributes.  SVG2 made it so that the
 initial value of those properties is `auto`, which is equivalent to
 specifying a value of `100%`.  In this sense, even SVG documents which lack
 `width` or `height` attributes semantically have to make them default to
 `100%`.  This is why since librsvg 2.54.0, `out_has_width` and
 `out_has_heigth` are always
 returned as `TRUE`, since with SVG2 all
 documents *have* a default width and height of `100%`.
 ```

 * src/rsvg-port.c (rsvg_port_preset_slot): Adjust for change of behavior of
 `rsvg_handle_get_intrinsic_dimensions` in librsvg 2.53+. We avoid
 `LIBRSVG_CHECK_VERSION` as it is possible to build against one version but
 run against another version.

2023-06-03 Hin-Tak Leung <htl10@users.sourceforge.net>

Fix 'librsvg' deprecation warnings.

* src/rsvg-port.c (rsvg_port_preset_slot): Use `rsvg_handle_render_document`
instead of `rsvg_handle_render_cairo`, and `rsvg_handle_render_layer`
instead of `rsvg_handle_render_cairo_sub`, as suggested by the warning,
conditionally on newer librsvg 2.52+.

2023-05-22 Werner Lemberg <wl@gnu.org>

man/ftview.1: Improve documentation of option `-l`.

2023-05-19 Seigo Nonaka <nona@google.com>

* src/ftmulti.c (main): Make program actually handle option `-a`.

2023-05-19 Seigo Nonaka <nona@google.com>

[ftbench] New option `-a` to apply
design coordinates.

The performance of MM fonts is quite different in comparison to static
fonts. To be able to get benchmarks for the former, add a new command-line
option to pass design coordinates.

* src/ftbench.c: Include `ftmm.h`.
(MAX_MM_AXES): New macro.
(multimaster, design_pos, requested_pos, requested_cnt, used_num_axes): New
global variables.
(get_face): Load MM data if requested.
(parse_design_coords): New function.

* man/ftbench.1: Updated.

2023-05-15 Werner Lemberg <wl@gnu.org>

[ftview] New key 'Z' to flip SVG rendering.

* src/ftcommon.h (FTDemo_Handle): New field `use_svg`.
* src/ftcommon.c (FTDemo_New, FTDemo_Update_Current_Flags): Handle it.

* src/ftview.c (Process_Event): Make key 'Z' toggle SVG usage.
(event_help, write_header): Updated.

2023-05-14 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Set up cache earlier.

* src/ftbench.c (main): Run `FTC_Manager_New` and `FTC_*Cache_New`
earlier and decide the test availability accordingly.
(test_*_cache,benchmark):
Do not check if cache is set.

2023-05-12 Alexei Podtelezhnikov <apodtele@gmail.com>

*src/ftbench.c (test_stroke): Test outline glyphs only.

2023-05-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Assure cache setup, clean exit.

2023-05-12 Ben Wagner <bungeman@chromium.org>

Correct type of icon_span

The `icon_span` is used as a `FT_SpanFunc`. To avoid undefined behavior
and a CFI sanitizer report, this function needs to called through a
pointer of the same type. Fix this by making `icon_span` take the right
parameter types and cast the argument in the function body.

* src/ftcommon.c (icon_span): take correct parameters and cast in
function body. (FTDemo_Icon): remove cast

2023-05-12 Ben Wagner <bungeman@chromium.org>

[graph] Correct function pointer types

Building the demos with the CFI sanitizer detects a number of uses of
undefined behavior in the Minimalist Graphics Subsystem where an
indirect function
call is made through a pointer of a different type.
All of these cases worked in practice since the differing argument
types were the same size and would have the same pointer value at
runtime.

Change the functions to take the correct types and downcast inside the
function.

* graph/beos/grbeos.cpp: remove casts

* graph/mac/grmac.c: correct return type of `listen_event`, remove casts

* graph/os2/gros2pm.c: correct function signatures, downcast inside
functions, remove function pointer casts

* graph/win32/grwin32.c: ditto

* graph/x11/grx11.c: ditto

2023-05-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Use proper `face_requester`.

It is wrong to forfeit the face ownership to the cache manager. Fixes #29.

* src/ftbench.c (face_requester): Call `get face`.
(main): Never pass `face` to the cache manager.

2023-05-10 Werner Lemberg <wl@gnu.org>

subprojects/*.wrap: Updated.

2023-05-09 Jouk Jansen <joukj@hrem.nano.tudelft.nl>

vms_make.com:
Correctly handle 'libbz2'.

2023-05-08 Werner Lemberg <wl@gnu.org>

* src/ftdump.c (Print_Sfnt_Tables): Insert spaces between bytes.

2023-05-08 Werner Lemberg <wl@gnu.org>

[ftdump] Show more variation font info.

* src/ftdump.c (Print_MM_Axes): Rename to...
(Print_MM_Info): ...this.
Show Variation Font PostScript name prefix.
Show named instances.

2023-05-08 Werner Lemberg <wl@gnu.org>

[ftdump] Code cleanup.

* src/ftdump.c (Print_MM_Axes): Move code to find an English name entry
to...
(get_english_name_entry): ... this new function.

2023-05-08 Werner Lemberg <wl@gnu.org>

* src/output.c: Handle `\0` specially.

Broken or intentionally invalidated fonts might contain NULL bytes at
arbitrary places.

2023-05-05 suzuki toshiya <mpsuzuki@hiroshima-u.ac.jp>

[ftdump] Print CID-keyed font properties if available.

* src/ftdump.c

(FT_CID_MAX): New macro.

(usage): Mention the CID coverage in `-c' and `-C'
options.

(Print_UInt_Range): New function to print
2 numbers
with a separator if needed.

(Print_CIDs): New function to print the implemented
CIDs in a compressed syntax. If a case
`gid_N < gid_M && CID_N > CID_M' is found, ftdump
aborts and guide the user to file the issue.

(Print_ROS_From_Face): New function to print the
Registry, Ordering, and Supplement of the CID-keyed
fonts, if available. If `-c' or `-C' option is
given, Print_CIDs() is invoked.

(main): Invoke Print_ROS_From_Face().

2023-04-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c (grid_status_rescale): Use PPEM-based scaling.

The zoom becomes well defined for the given size but the ascender and
descender lines might be offside.

2023-04-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_{All,Fancy,Stroke}): Improve zero-width glyphs.

2023-04-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_{All,Fancy,Stroke}): Tweak zero-width glyphs.

This helps to avoid collisions and unhides zero-width
glyphs better.

2023-04-21 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Use green empty boxes instead.

* src/ftview.c (status): Store green color.
(main): Initialize it.
(Render_*): Use it.

2023-04-21 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (main): Remove unnecessary code.

2023-03-27 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (main): Handle rendering errors differently.

2023-03-27 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (main): Fix segfault with bad command line.

2023-03-26 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftlint] Examine the outline shape complexity.

Measured as a ratio of the outline half-perimeter to the sum of its
control box dimensions, the shape complexity is a useful metric.
For example, an `I` and an `M` would have complexities of about
1.0 and 2.0, respectively.

* src/ftlint.c (Examine): Implement the shape complexity calculation.
(main) Report the shape complexity.
* man/ftlint.1:
Add a brief explanation.

2023-03-15 Charlie Jiang <w@chariri.moe>

[ftinspect] Support gray level scaling.

See commit 746d5be5: Convert to 256 grays. Slightly tweaked code style.

* src/ftinspect/engine/rendering.cpp (RenderingEngine::convertBitmapTo8Bpp):
Implement it.

2023-03-10 Jouk Jansen <joukj@hrem.nano.tudelft.nl>

Update VMS installation support.

2023-03-03 Charlie Jiang <w@chariri.moe>

[ftinspect] Fix uninitialized memory issue and reference misuse.

Fixes issue #23.

* src/ftinspect/engine/rendering.cpp (RenderingEngine::convertBitmapTo8Bpp):
Properly initialize `FT_Bitmap` since it is a value type.
(RenderingEngine::convertBitmapToQImage): Fix the accidental overwriting of
the source bitmap when converting the bitmap format (only happens for
`FT_PIXEL_MODE_GRAY2` and `FT_PIXEL_MODE_GRAY4`) due to a misuse of a C++
reference.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp
(GlyphContinuous::drawCacheGlyph): Fix a crash when the `QImage`
was failed
to produce.

2023-03-02 Werner Lemberg <wl@gnu.org>

* graph/gblblit.c: Include `<stdlib.h>`.

This is for the `abs` function.

2023-03-02 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Handle glyphs with 4 or 16 grays.

* graph/gblblit.c (gblender_glyph_upgray): Convert to 256 grays.
(gblender_blit_init): Call it if necessary.

2023-02-27 Werner Lemberg <wl@gnu.org>

TrueType mode v38 is gone.

Synchronize with FreeType commit 'Hide Infinality.' from 2023-Feb-17.

Both macros `TT_INTERPRETER_VERSION_38` and `TT_INTERPRETER_VERSION_40` have
now the same value, leading to numerous compilation errors because we use
these two macros as (different) case labels in switch statements.

* src/ftbench.c (tt_interpreter_versions, header, usage, main): Don't use
`TT_INTERPRETER_VERSION_38`.
* src/ftcommon.c (FTDemo_Hinting_Engine_Change, FTDemo_Get_Info): Ditto.
* src/ftdiff.c (ColumnStateRec, render_state_init, render_state_draw):
Ditto.
* src/ftmulti.c
(tt_interpreter_versions, main): Ditto.
* src/ttdebug.c (tt_interpreter_versions, Usage, main): Ditto.

* src/ftinspect/engine/engine.hpp (EngineDefaultValues): Ditto.

* src/ftinspect/engine/engine.cpp (Engine::queryEngine): Ditto.
* src/ftinspect/models/customcomboboxmodels.hpp (HintingModeComboBoxModel):
Ditto.
* src/ftinspect/models/customcomboboxmodels.cpp
(HintingModeComboBoxModel::HintingModeComboBoxModel): Ditto.
* src/ftinspect/panels/settingpanel.cpp (SettingPanel::setDefaults): Ditto.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c: Clean up loading and scaling.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (main, Init_Display): Clean up GUI setup.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c: Clean up and fix MSVC warnings.

2023-02-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* man/ftmulti.1: Updated.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftmulti] Enable
fill rule flag testing.

Variation fonts often relay on overlapping contours. To reveal them,
we enable turning the even-odd fill rule on and off. This flag is
always off in FreeType by default but supported by the anti-aliased
renderer.

* src/ftmulti.c (Process_Event): Reassign F3 to fill rule toggle,
assign Tab to anti-aliasing toggle.
(Render_Glyph): Tinker with the fill rule flags before rendering.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c: Clean up and fix warnings.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (Process_Event): Miscellaneous tweaks.

Set default step at 1/40 which covers most preferable coordinates.
Adjust the step by doubling or halving it. Round all large-range
coordinates, not just MM. Wrap the coordinates around.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (Render_All, Render_Text, main): Layout tweaks.

2023-02-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftmulti]
Enable overlap flag testing.

Variation fonts often relay on overlapping contours, which require
oversampling to render properly. FreeType relies on FT_OUTLINE_OVERLAP
to trigger the expensive mitigation algorithm. This commit enables
tinkering with the overlap flags and, therefore, the oversampling.
Normally, the flags should be set by the font designers sparingly.

The bitmap strike toggle is no longer available, which has never
been important for the variation font testing.

* src/ftmulti.c (Process_Event): Reassign F4 to overlap toggle.
(Render_Glyph): Tinker with the overlap flags before rendering.

2023-02-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (Init_Display): Use automatic color depth.

2023-02-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (main): Synchronize options with the others.

2023-02-09 Werner Lemberg <wl@gnu.org>

* Version 2.13.0 released.
==========================

Tag sources with 'VER-2-13-0'.

*
README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

2023-02-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (Message_Process): Drop some sizing messages.

With the window procedure in a separate thread we only need to forward
basic WM_SIZE, which is sent frequently enough.

2023-02-08 Werner Lemberg <wl@gnu.org>

Fix various minor compiler warnings.

2023-02-08 Werner Lemberg <wl@gnu.org>

[ftgrid] Synchronize with FreeType git.

The changes are necessary due to the commit

```
Avoid reserved identifiers that are globally defined.
```

2023-02-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftmulti.c (Render_All): Tighten right margin.

2023-02-07 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] Add ftmulti.

* builds/windows/msvc/ftmulti.vcxproj: New project.
* builds/windows/msvc/ft2demos.sln: Add it to solutions.

2023-02-07 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Minor driver improvements.

*
graph/win32/grwin32.c: (gr_win32_device_init): Do not set icon
or background, which is covered anyway.
(Message_Process) [WM_PAINT]: Paint only updated rectangle.

2023-02-06 Werner Lemberg <wl@gnu.org>

* src/ftmulti.c (Process_Event): Simplify.

2023-02-06 Werner Lemberg <wl@gnu.org>

[ftmulti] More key reassignments.

This is a try to better harmonize with other demo programs, and to make the
selection of axes more mnemonic.

* src/ftmulti.c (MAX_MM_AXES): Set to 16.
(Process_Event): Use keys 'aA' for axis 0, 'bB' for axis 1, ..., 'pP' for

axis 16.
Use F1 for help, too.
Use 16, 256, and 4096 as the glyph index increments.
Also adjust other keys to avoid collisions.
(Help): Updated.
(main): Show mnemonic letter next to axis.
Updated.

2023-02-05 Werner Lemberg <wl@gnu.org>

[ftmulti] Display up to 15 axes.

Due to the support of the 'avar' version 2 OpenType extension it is expected
that the number of axes in many fonts will increase because adding
'virtual
axes' is cheap now.

* src/ftmulti.c (MAX_MM_AXES): Set to 15.
(Help): Updated.
(Process_Event): Handle keys '7890-=' for axes 6-8, '!@#$%^' for axes 9-11,
and '&*()_+' for axes 12-14.

2023-02-05 Werner Lemberg <wl@gnu.org>

[ftmulti] Change layout to list axes vertically.

* src/ftmulti.c (Render_All, Render_Text): Shift 'upper left corner' for
glyph display up and to the right.
(main): Emit one axis per line at the left side of the screen.

2023-02-05 Werner Lemberg <wl@gnu.org>

* graph/grevents.h (grKey): Add `grKeyHash` and `grKeyAmpersand`.

2023-02-04 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (my_face_requester): Recognize t1 file extension.

2023-02-04 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (Message_Process): Return TRUE on WM_SIZING.

2023-02-02 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Improve error handling.

* graph/win32/grwin32.c (gr_win32_surface_resize): Change return type.
(gr_win32_surface_init):

Ditto and handle failure gracefully.

2023-02-01 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (write_header): Change layout.

2023-01-30 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (Analyze): Report void bitmaps.

2023-01-30 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftstring] Reduce floating point use.

* src/ftcommon.c (FTDemo_String_Load): Use signed integers, not doubles.
* src/ftstring.c (event_angle_change): Minor.

2023-01-30 Werner Lemberg <wl@gnu.org>

* subprojects/libpng.wrap: Updated.

2023-01-29 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (write_header): Always report kerning info.

2023-01-28 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftstring] New feature: simple string editor.

It only handles printable ASCII characters and backspace to erase them.

* src/ftstring.c (Process_Event): Use Enter key to initiate this mode.
(Process_TTY): Intercept and handle relevant keys
while editing.
(Render_TTY): Special rendering mode while editing.
(main, event_help): Updated.

2023-01-28 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (event_render_mode_change): Remove report.

2023-01-28 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (key_translators): Sort virtual-key codes.

2023-01-27 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (Render_Waterfall): Avoid bitmap reloading.

This hides horrible performance of compressed PCF fonts.

2023-01-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_Waterfall): Fill the right margin.

The waterfall looks better if the string runs over the edge.

2023-01-25 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid,ftstring,ftview] Option to select charmap by index.

* src/ftcommon.c (FTDemo_Install_Font): Accept a charmap index.
(FTDemo_Make_Encoding_Tag): Fall back on a numeric value to return.

* src/ftgrid.c, src/ftstring.c, src/ftview.c
(usage): Updated.
* man/ftgrid.1, man/ftstring.1, man/ftview.1: Ditto.

2023-01-24 Alexei Podtelezhnikov <apodtele@gmail.com>

Typos.

2023-01-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (Usage): Output to stderr, like others do.

2023-01-22 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench,ftgrid,ftmulti,ftview] Accept hexadecimal glyph indices.

This helps to use charcodes on the command line.

* src/ftbench.c (main): Use sscanf with "%i".
* src/ftgrid.c (parse_cmdline): Ditto.
* src/ftmulti.c (main): Ditto.
* src/ftview.c (parse_cmdline): Ditto.

2023-01-21 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_init): Polish gray mode.

2023-01-21 Alexei Podtelezhnikov <apodtele@gmail.com>

Edit comments.

2023-01-20 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Explain the blender cache.

2023-01-18 Alexei Podtelezhnikov <apodtele@gmail.com>

Typos.

2023-01-17 Werner Lemberg <wl@gnu.org>

Update
all copyright notices.

2023-01-17 Werner Lemberg <wl@gnu.org>

* src/ftinspect/*.[ch]pp: Normalize copyright notices

This allows the use of FreeType's `update-copyright-year` script.

2023-01-17 Werner Lemberg <wl@gnu.org>

Minor comment typos.

2023-01-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Fix -Wswitch warning.

2023-01-14 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Microoptimization.

* src/ftview.c (parse_cmdline, write_header, Process_Event, parse):
Prioritize easy checks.

2023-01-14 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Trigger screen updates locally.
(main, status): Cleaned up.

2023-01-14 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Minor refactoring.

2023-01-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Process_Event): Small harmonization.

2023-01-12 Alexei Podtelezhnikov <apodtele@gmail.com>

Typos.

2023-01-11
Alexei Podtelezhnikov <apodtele@gmail.com>

Minor comment.

2023-01-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Draw_Header): Minor.

2023-01-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/*.c: Pair up `grRefreshSurface` and `grListenSurface` calls.

2023-01-10 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftstring.c (main, write_header): Reset custom header differently.

2023-01-10 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftstring] Fix error reporting.

* src/ftstring.c (Render_*): Do not return or overwrite errors.
(main): Updated accordingly.

2023-01-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c: Remove obsolete comments.

2023-01-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Draw_Header): Show sizing errors again.

2023-01-08 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview, ftstring] Prevent locking on broken unsizable fonts.

* src/ftstring.c (Render_Waterfall):
Break on error.
* src/ftview.c (Render_Waterfall): Break on error.

2023-01-06 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c: Fix a warning.

2023-01-05 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (main): Decorate opening and sizing errors.

2023-01-03 Werner Lemberg <wl@gnu.org>

* src/ftcommon.c (FTDemo_Draw_Header): Handle invalid `size` objects.

2022-12-07 Werner Lemberg <wl@gnu.org>

* subprojects/zlib.wrap: Micro-update from upstream.

2022-12-01 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Sync the render mode and the load target.

2022-11-30 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c (main): Honor render mode with FT_LOAD_RENDER.

2022-11-14 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftbench.c: Relocate and undo BBox rotations.

2022-11-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* man/ftbench.1: Minor updates.

2022-11-11 Alexei Podtelezhnikov <apodtele@gmail.com>

*
src/ftbench.c (test_get_bbox): Use `FT_Set_Transform`.

2022-11-11 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftbench] Fix up charmap benchmarking.

* src/ftbench.c (main): Parse and process the charmap index option.
(header): Report the active charmap index.
(usage): Document it.
(test_cmap_cache): Call `FTC_CMapCache_Lookup` with correct argument.
(test_cmap_iter): Do not count idle charmaps.

* man/ftbench.1: Document the charmap selection.

2022-10-25 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Improve error tracking.

* src/ftcommon.c (FTDemo_Error_String): Spin off new function from...

(PanicZ): ... this function.
* src/ftcommon.h (FTDemo_Error_String): Declare it.
* src/ftview.c (Process_Error): Count and track persistent errors.
(Render_*): Use it.
(main): Report the persistent error code and description.

2022-10-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftview.c (Render_Stroke): Render bitmaps without stroking.

2022-10-24 Werner Lemberg
<wl@gnu.org>

Replace '1/50th' (and similar entries) with '1/64' in output and comments.

2022-10-20 Werner Lemberg <wl@gnu.org>

* subprojects/zlib.wrap: Update to zlib version 1.2.13.

2022-10-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/x11/grx11.c (gr_x11_surface_{init,done}): Use DefaultGC.

2022-10-07 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/x11/grx11.c (gr_x11_surface_init): Ignore border and colormap.

The colormap is unused. The border is set by a window manager.

2022-10-03 Charlie Jiang <w@chariri.moe>

[ftinspect] Change unclear comments.

* src/ftinspect/engine/fontinfo.hpp,
src/ftinspect/glyphcomponents/glyphcontinuous.cpp: Clearify comments.

* src/ftinspect/maingui.cpp: Actually the left widget does more than
setting the margin, so the comment line about removing the left widget and
layout is removed.

2022-10-03 Charlie Jiang <w@chariri.moe>

* src/ftinspect/engine/engine.cpp: Fix CBDT/CBLC colored fonts.

Add
`FT_LOAD_COLOR` for those fonts.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/widgets/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/panels/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/models/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/glyphcomponents/*`.

2022-10-03 Werner Lemberg <wl@gnu.org>

[ftinspect] Format `src/ftinspect/engine/*`.

2022-10-02 Werner Lemberg <wl@gnu.org>

[ftinspect] Format build files for cmake and meson.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Do it.
Also sort entries.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Activate the color layers by default.

Don't deactivate it when color layers are absent. Also fix typo.

* src/ftinspect/panels/settingpanel.cpp: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect]
Fix memory-related crash, and refactor outline-retaining...

graphics items. Also fix some compiler warnings.

* src/ftinspect/glyphcomponents/glyphoutline.cpp,
  src/ftinspect/glyphcomponents/glyphoutline.hpp:
  Don't retain the `FT_Outline*` whose lifetime is bound to the glyph.

Prepare the path in the ctor so the outline isn't saved.
Add `GlyphUsingOutline` as the base class for all classes that have to
retain a `FT_Outline` object.

* src/ftinspect/glyphcomponents/glyphpointnumbers.cpp,
src/ftinspect/glyphcomponents/glyphpointnumbers.hpp,
src/ftinspect/glyphcomponents/glyphpoints.cpp,
src/ftinspect/glyphcomponents/glyphpoints.hpp: Refactored.

* src/ftinspect/engine/engine.hpp, src/ftinspect/panels/singular.hpp,
src/ftinspect/engine/rendering.hpp
Add default values to initialize member fields.

* src/ftinspect/panels/singular.cpp:
Pass the `FT_Library` into the graphics items.

* src/ftinspect/models/fontinfomodels.cpp:
Fix warning.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add transformation and scaling info to the composite glyph view.

Note: Untested since no font with non-1.0 scale subglyphs is found.

* src/ftinspect/engine/fontinfo.cpp, src/ftinspect/engine/fontinfo.hpp:
Fetch transformation and scaling info from the font.

* src/ftinspect/models/fontinfomodels.cpp,
src/ftinspect/models/fontinfomodels.hpp:
Change the "Position" column to "Position and Transformation".
Display the transformation info.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Improve bitmap display in the glyph details pane.

Now the ppem square is displayed as light gray, ink box as blue,
xy-axis as thin black lines.
Adding ppem square improves displaying of non-spacing glyphs.

* src/ftinspect/panels/glyphdetails.cpp:
Pass the ppem box to the `GlyphBitmap` widget.

* src/ftinspect/glyphcomponents/glyphbitmap.cpp,
src/ftinspect/glyphcomponents/glyphbitmap.hpp:
Add a `placeholderRect`

to store the ppem square info. Layout the glyph
  bitmap on the basis of the ppem square.
  Draw auxiliary lines on the canvas.

2022-09-25 Charlie Jiang <w@chariri.moe>

 [ftinspect] Modify the about text and add actual version.

 * src/ftinspect/maingui.cpp: As described.

 * src/ftinspect/ftinspect.cpp: Pass the actual version.

 * src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `dynamicLibraryVersion` func.

2022-09-25 Charlie Jiang <w@chariri.moe>

 * src/ftinspect/engine/engine.cpp: Minor formatting.

2022-09-25 Charlie Jiang <w@chariri.moe>

 [ftinspect] Fix random crash when closing fonts.

 * src/ftinspect/widgets/tripletselector.cpp: Disallow font indices below 0.
  It seems the CFF driver can't handle this properly.

2022-09-25 Charlie Jiang <w@chariri.moe>

 [ftinspect] Add "Font Info" tab.

 * src/ftinspect/panels/info.cpp, src/ftinspect/panels/info.hpp:
  New files, add the `InfoTab` class.

 * src/ftinspect/engine/fontinfo.cpp,
 src/ftinspect/engine/fontinfo.hpp:
  Add `SFNTTableInfo`, `FontBasicInfo`, `FontTypeEntries`, `FontFixedSize`
  and `CompositeGlyphInfo`. The `SFNTTableInfo` and `CompositeGlyphInfo`
  classes retrieve info without the related FreeType API, but directly
  parse the font data.

 * src/ftinspect/models/fontinfomodels.cpp,
  src/ftinspect/models/fontinfomodels.hpp:
  New files. Add models for the tables and the tree view in the info tab to
  use.

 * src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `loadDefaults` function for the composite glyphs view to draw its
  small icon.

Add `currentFontHasGlyphName`, `currentFontPSInfo`,
`currentFontPSPrivateInfo` and `currentFontSFNTTableInfo` to obtain info.
Add getters.

* src/ftinspect/engine/fontinfonamesmapping.cpp: New file for name mapping.

* src/ftinspect/engine/fontfilemanager.cpp,
src/ftinspect/engine/fontfilemanager.hpp:
Add `currentReloadDueToPeriodicUpdate` so the composite glyph
tree isn't
refreshed (which is a very expensive process) for the periodic updating of
symbolic font files.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add the font info tab info the main window and wire events.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add "Comparator View".

* src/ftinspect/panels/comparator.cpp, src/ftinspect/panels/comparator.hpp:
New files, adding the `ComparatorTab`.

* src/ftinspect/panels/settingpanel.cpp,
src/ftinspect/panels/settingpanel.hpp: Add comparator mode.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add comparator tab and modify `switchTab` to prevent unwanted window
resizing, and to fix the tab bar position.
Modify `applySettings` to skip applying for comparator tab.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add left/right click
behaviour to the continuous view.

Left clicking will open the glyph details pane, and right clicking will
switch to the singular tab.

* src/ftinspect/panels/glyphdetails.cpp,
src/ftinspect/panels/glyphdetails.hpp:
New files, add the `GlyphDetails` class.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp,

src/ftinspect/glyphcomponents/glyphcontinuous.hpp:
Add `mouseReleaseEvent` event handler which emits the new
`updateGlyphDetails` and `rightClickGlyph` signals.

* src/ftinspect/glyphcomponents/glyphbitmap.cpp,
src/ftinspect/glyphcomponents/glyphbitmap.hpp:
Add `GlyphBitmapWidget` to show the enlarged bitmap.

* src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
Add code to update the details panel, and wire up events.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add code to initialize the glyph details panel, and wire up components and
events.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25
Charlie Jiang <w@chariri.moe>

[ftinspect] Add "Continuous View".

Most new features in the continuous view are included in the commit, except
the mouse left (details pane)/right (go to singular) click behaviour.

* src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
New files, the main continuous tab.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp,
src/ftinspect/glyphcomponents/glyphcontinuous.hpp:
New files, adding the `GlyphContinuous` as the actual canvas for
continuous rendering.

* src/ftinspect/engine/stringrenderer.cpp,
src/ftinspect/engine/stringrenderer.hpp:
New files, adding `StringRenderer` to layout the strings and produce
glyphs for the canvas to draw.

* src/ftinspect/widgets/charmapcombobox.cpp,
src/ftinspect/widgets/charmapcombobox.hpp:
New files, add the `CharMapComboBox` widget.

* src/ftinspect/engine/charmap.cppsrc/ftinspect/engine/charmap.hpp:
New files, adding `CharMapInfo` class.

*
src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add necessary fields and getters for string rendering.

Retrieve charmap when loading fonts.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add the continuous view to the main window.
Call `ContinuousTab::highlightGlyph` when switching from singular to continuous view.

* src/ftinspect/panels/settingpanel.cpp: Uncomment functional code.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

This is a combination of 2 commits.
This is the 1st commit message:

[ftinspect] Add "Continuous View".

Most new features in the continuous view are included in the commit, except the mouse left (details pane)/right (go to singular) click behaviour.

* src/ftinspect/panels/continuous.cpp, src/ftinspect/panels/continuous.hpp:
New files, the main continuous tab.

* src/ftinspect/glyphcomponents/glyphcontinuous.cpp,
src/ftinspect/glyphcomponents/glyphcontinuous.hpp:

New files, adding the `GlyphContinuous` as the actual canvas for continuous rendering.

* src/ftinspect/engine/stringrenderer.cpp,
src/ftinspect/engine/stringrenderer.hpp:
New files, adding `StringRenderer` to layout the strings and produce glyphs for the canvas to draw.

* src/ftinspect/widgets/charmapcombobox.cpp,
src/ftinspect/widgets/charmapcombobox.hpp:
New files, add the `CharMapComboBox` widget.

* src/ftinspect/engine/charmap.cppsrc/ftinspect/engine/charmap.hpp:
New files, adding `CharMapInfo` class.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add necessary fields and getters for string rendering.
Retrieve charmap when loading fonts.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add the continuous view to the main window.

Call `ContinuousTab::highlightGlyph` when switching from singular to
continuous view.

* src/ftinspect/panels/settingpanel.cpp: Uncomment
functional code.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

This is the commit message #2:

* src/ftinspect/engine/stringrenderer.cpp: Fix infinite loop.

Don't limit the glyph position and exit too early, or the loop in `render`
function won't stop forever. Also, since the string can be moved by the
mouse, there's no point to limit the line position in the canvas viewport.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add SFNT `name` table retrieving.

* src/ftinspect/engine/fontinfo.cpp, src/ftinspect/engine/fontinfo.hpp:
New files, add `SFNTName` to retrieve `name` table.
Conversions to `QString` from mainstream encodings are supported.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add `currentFontSFNTNames` and retrieve the `name` table when loading the
font. Also pass the SFNT name table when loading palettes.

* src/ftinspect/engine/mmgx.cpp, src/ftinspect/engine/paletteinfo.cpp:
Uncomment functional
code to make use of the `name` table.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support MM/GX.

* src/ftinspect/panels/settingpanelmmgx.cpp,
src/ftinspect/panels/settingpanelmmgx.hpp:
Add GUI widgets for MM/GX settings.

* src/ftinspect/engine/mmgx.cpp, src/ftinspect/engine/mmgx.hpp:
Add `MMGXAxisInfo` to retrieve axes info. However, the SFNT name table
isn't implemented, so the SFNT based axis names are unavailable.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add `applyMMGXDesignCoords`. Add getters `currentFontMMGXState` and

`currentFontMMGXAxes`. Info is retrieved when loading font.

* src/ftinspect/panels/settingpanel.cpp,
src/ftinspect/panels/settingpanel.hpp: Uncomment functional code.
Remove `checkHintingMode` and `checkStemDarkening`. Applying of delayed
settings is taken care by the `MainGUI`. So emitting `fontReloadNeeded`

simply will do the work.

* src/ftinspect/maingui.cpp: Don't reset the cache so aggressively.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add auxiliary lines for the grid view.

The aux lines will show advance and asc/descender.

* src/ftinspect/glyphcomponents/grid.cpp,
src/ftinspect/glyphcomponents/grid.hpp: Implement aux lines.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add `currentSizeAscDescPx`.

* src/ftinspect/panels/singular.cpp, src/ftinspect/panels/singular.hpp:
Pass parameters to the `Grid` graphics item.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support opening files drag-dropping.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Add related code.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support opening files via command-line.

* src/ftinspect/engine/fontfilemanager.cpp,
src/ftinspect/engine/fontfilemanager.hpp:

Add `loadFromCommandLine` func.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
Add and call `loadCommandLine` func.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support LCD rendering.

* src/ftinspect/engine/rendering.cpp, src/ftinspect/engine/rendering.hpp:
  Implement `convertLCDToARGB` and `convertLCDVToARGB`.
  Add `lcdUsesBGR` property.

* src/ftinspect/panels/settingpanel.cpp: Uncomment functional code.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support color layers.

* src/ftinspect/engine/rendering.cpp:
  Add implementation of `tryDirectRenderColorLayers`.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Implement `loadPaletteInfos` and `loadPalette`.
  Add `currentFontHasColorLayers` and a group of getters/setters supporting
  color layer rendering.
  Also reorder fields as the number of fields grows.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/panels/settingpanel.hpp:
  Implement
`populatePalettes` and reorder functions.
  Fix `checkPalette` about combo box enabling state and reset the cache when
  the palette settings change.
  Uncomment functional code.

* src/ftinspect/engine/paletteinfo.cpp,
  src/ftinspect/engine/paletteinfo.hpp: New files adding `PaletteInfo`.
  Retrieving palette names using SFNT name tables is not supported yet.

* src/ftinspect/panels/singular.cpp:
  Call `Engine::loadPalette` when drawing.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support stem darkening.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `setStemDarkening` func.

* src/ftinspect/panels/settingpanel.cpp: Uncomment function code.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support tricky fonts.

For tricky fonts, we disable auto-hinter and limit the TT interpreter
version.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:

 Add `currentFontTricky` function and turn off hinting forcibly when the
  user turns it off in the GUI for tricky fonts.

* src/ftinspect/panels/settingpanel.cpp: As described.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Support embedded bitmap and bitmap-only fonts.

Bitmap glyphs are already supported in the new rendering engine, so we make
the option effective in the GUI. Also support bitmap-only fonts by coercing
sizes to available ones and force embedded bitmaps.

* src/ftinspect/widgets/fontsizeselector.cpp,
  src/ftinspect/widgets/fontsizeselector.hpp:
  Retrieve fixed sizes info from the engine and coerce to nearest available
  sizes when using bitmap-only fonts.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `embeddedBitmapEnabled` property and `currentFontHasEmbeddedBitmap`,
  `currentFontBitmapOnly` and `currentFontFixedSizes` getters.

* src/ftinspect/panels/settingpanel.cpp: Uncomment functional code.

2022-09-25
 Charlie Jiang <w@chariri.moe>

[ftinspect] Refactor `Engine` and fix the singular tab.

This comment brings the new glyph loading and bitmap rendering code.
The bitmap rendering part is in `RenderingEngine` which can be obtained
from the `Engine`. The `Engine` now supports loading the glyph by loading
with image cache and without image cache.
The `loadOutline` function is removed.

Accompanying this change, some new features are introduced as well. Most
notable the improvements in rendering: back/foreground color and gamma,
support bitmap glyphs (not enabled in the UI). Support for LCD and color
layer font is absent yet.

The singular tab is now enabled by uncommented functional code that was
commented in the last commit.

In `Engine`, a `ftFallbackFace_` is introduced for all non-rendering work,
and the old `ftSize_` is only used for rendering. This helps dealing with
non-scalable fonts since we can safely retrieve info with the fallback face.

* src/ftinspect/engine/engine.cpp,
src/ftinspect/engine/engine.hpp:
  Integrate the `RenderingEngine`.
  Change `loadFont` to update the `ftFallbackFace_` as well.
  Change all info-retrieving functions to use `ftFallbackFace_`.
  Add `loadGlyph`, `loadGlyphIntoSlotWithoutCache` and
  `loadGlyphWithoutUpdate`, and remove `loadOutline`.
  Extract code about "get a face object from the cache and do sth."
  into a new function `withFace`.
  Add property `antiAliasingEnabled` and `renderMode` for the rendering
  engine.
  Some minor changes are included.

* src/ftinspect/engine/rendering.cpp, src/ftinspect/engine/rendering.hpp:
  New files, as described.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/glyphcomponents/glyphbitmap.cpp,
  src/ftinspect/panels/singular.cpp: Uncomment functional code.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Add the `SingularTab` and related widgets.

This introduces
the new singular tab. However, because the new tab heavily
depend on the new engine structure, it's current not functional. No bitmap
or outline will be displayed. This would be fixed after the `Engine` was
refactored in the next commit.

The new singular tab has the size and glyph index selector moved out as
modular widgets to be reused.

The new scroll and shortcut behaviours are introduced in this commit, which
depend on scroll events introduced in the custom `QGraphicsViewx`.

The infinity panning of grid is implemented mainly via
`SingularTab::updateGrid` and `Grid::updateRect`.

This commit is introducing new features since it would be unfavorable to
"backport" old version of glyph components, and add those new features in
future commits - this is way too complex.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  Add `currentFontNumberOfGlyphs` and `dpi` functions.

* src/ftinspect/widgets/fontsizeselector.cpp,
  src/ftinspect/widgets/fontsizeselector.hpp:

 This is the new font size selector to replace the old size/DPI/zoom boxes.
  This widget is capable of handling wheel and key events delegated from
  other widgets.
  The support for fixed sizes and bitmap-only font is not yet added.

* src/ftinspect/widgets/glyphindexselector.cpp,
  src/ftinspect/widgets/glyphindexselector.hpp:
  This is the new glyph index selector to replace the old navi buttons.
  This selector is aware of index min/max, consists of a group of navi
  buttons, a text box (actually a spin box without buttons) to directly
  input glyph index.

* src/ftinspect/glyphcomponents/graphicsdefault.cpp,
  src/ftinspect/glyphcomponents/graphicsdefault.hpp:
  This struct contains all default graphical settings (mainly for singular
  view, e.g. the grid line color).

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  Add the new tab into the main window.

* src/ftinspect/glyphcomponents/glyphbitmap.cpp,
  src/ftinspect/glyphcomponents/glyphbitmap.hpp:

 This will now delegate rendering to the engine instead of doing rendering
  itself. However, since the rendering part of the `Engine` is not
  implemented, code initializing `image_` is left commented.
  Also add another constructor for initializing directly from a `QImage`.

* src/ftinspect/glyphcomponents/glyphoutline.cpp,
  src/ftinspect/glyphcomponents/glyphoutline.hpp,
  src/ftinspect/glyphcomponents/glyphpointnumbers.cpp,
  src/ftinspect/glyphcomponents/glyphpointnumbers.hpp,
  src/ftinspect/glyphcomponents/glyphpoints.cpp,
  src/ftinspect/glyphcomponents/glyphpoints.hpp:
  Constructors of those items now accept a `FT_Glyph` instead of
  `FT_Outline`. The conversion is done inside the view, and the view won't
  be displayed if the glyph isn't outline glyph.
  This simplifies the code of `SingularTab`.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Rewrite `MainGUI`.

Note:
This commit compiles, but the main view is removed, so you will get a
blank right panel. The singular view will be added back with major changes
in the next commit.

This commit mainly introduces below changes:

1. The original `MainGUI` contains almost all GUI elements. Most of them are
   taken out to modular components. The current `MainGUI` serves only as
   a skeleton provides coordinate between components, greatly shortened.
   It also provides some auxiliary code such as calling to file chooser.
2. The left panel is moved to `SettingPanel` class. The current
   `settingpanel.[ch]pp` are directly modified from the latest code, so they
   contains some options not implemented in the `Engine`.
   Structural code that is only added accompanying later change is removed,
   such as the comparator mode. Such code will be added back with the
   related feature. However, code for unimplemented options are simply
   commented out.
3. The main part is transformed into
a tabbed view. The original code is
   removed. Refactored, it will be added back in the next commit.
4. The navigation buttons (Next/Prev Font/Face/NI) are changed into the new
   triplet-selector, which is a major UI improvement.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: As described.

* src/ftinspect/panels/abstracttab.hpp: Add `AbstractTab` which is an
  interface for all tabs listening for font reloading and repainting.

* src/ftinspect/panels/settingpanel.cpp,
  src/ftinspect/panels/settingpanel.hpp:
  As described, this is the left panel. This requires intensive reviewing
  since many bugs had rooted here.

* src/ftinspect/widgets/tripletselector.cpp,
  src/ftinspect/widgets/tripletselector.hpp:
  As described, this is the triplet (Font/Subface/NI) selector.
  This component is also responsible for repopulating triplet information
  and keep up with the font file change (i.e. the
  `FontFileManager::currentFileChanged` event is captured here).

*
src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
Add `fontValid` and `namedInstanceName` since `TripletSelector` requires
them. However, they'll subject to change later.

* src/ftinspect/ftinspect.cpp: Remove call to `MainGUI::setDefaults`.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] WIP: Rewrite `MainGUI`.

Note: This commit doesn't compile. This change is splitted into 2 commits
to avoid a complicated diff.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Old version removed.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Rename `rendering` dir to `glyphcomponents`.

All classes in `rendering` directory will be responsible for draw
glyphs, either as independent widgets or as `QGraphicsItem`. However, the
actual drawing part will be placed into `RenderingEngine`. Therefore, we
rename it to `glyphcomponents`.

* src/ftinspect/rendering/**: Renamed.

*
src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build,
src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Re-organize custom widgets.

* src/ftinspect/widgets/customwidgets.cpp,
src/ftinspect/widgets/customwidgets.cpp: New files.
Include `QGraphicsViewx`, `ZoomSpinBox` and `UnboundScrollArea` (for later
use).

* src/ftinspect/widgets/qspinboxx.hpp, src/ftinspect/widgets/qspinboxx.hpp:
Changed into `ZoomSpinBox` in `customwidgets.cpp`.

* src/ftinspect/widgets/qgraphicsviewx.cpp,
src/ftinspect/widgets/qgraphicsviewx.hpp:
Merged into `customwidgets.cpp`

* src/ftinspect/widgets/qcomboboxx.hpp,
  src/ftinspect/widgets/qcomboboxx.cpp: Removed. No longer needed.
  We're using custom `QAbstractListModel`'s `flags` func to disable items.

* src/ftinspect/widgets/qpushbuttonx.hpp,
  src/ftinspect/widgets/qpushbuttonx.cpp: Removed. No longer needed.
  We're using `setButtonNarrowest` in `uihelper.cpp`.

*
src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Updated to use new
  custom widgets.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Use custom `QAbstractListModel` instead of manually mapping.

In `maingui.cpp`, mapping between `QComboBox` indices and actual FreeType
values was done manually. The enabled statuses of individual ComboBox items
were also maintained in `maingui.cpp`.

In this commit, those code was moved to seperate custom classes
implementating `QAbstractListModel`. All mapping was done there.
Enable/Disable states was maintained in the classes as well.
By doing this, the reason why some items were disabled was made more clear
and explicit. Adding more items is easier.

The `QComboBoxx` custom widget is no longer needed since disable flag can
be provided by the custom model by overriding the `flags` function.

`SimpleComboBoxModel` is a basic class for Key-Value-DisplayName
mapping.
Other models could extend this class if no complicated mapping (e.g.
`HintingModeComboBoxModel`) is needed.

* src/ftinspect/models/customcomboboxmodels.cpp,
  src/ftinspect/models/customcomboboxmodels.cpp: New files.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  `Engine` now accepts "load target" value of certain anti-aliasing mode
  instead of the anti-aliasing enum value. The mapping was moved into
  `AntiAliasingComboBoxModel`.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp: Move all mappings
  and enabled/disabled statuses to separate models.
  Remove mapping `QHash`es. Use `QComboBox` instead of `QComboBoxx`.

* src/ftinspect/meson.build, src/ftinspect/CMakeLists.txt: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Rename all private member variables with an underscore suffix.

(pure mechnical commit)

* src/ftinspect/**: Renaming. Also some variables with abbreviations
were renamed.

This
will enable nicer getter/setters, as discussed in #13.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Refactor `Engine`.

This commit decouples `Engine` so it no longer depends on `MainGUI`.

Because of that, a lot of getters and setters are added to `Engine`, and
`MainGUI` call setters in its `applySettings` function, which makes applying
of the settings lazy (only happen when the glyph repaints).

In the later commits, options will be divided into two types: mostly lazy
ones, and a few eager ones which need to be immediately applied, because
they need the cache to be purged.

Some code in `MainGUI` is moved into `Engine`, as well.

Functions in the `Engine` are re-ordered. Constructor is greatly reduced to
`queryEngine`.

* src/ftinspect/engine/engine.cpp, src/ftinspect/engine/engine.hpp:
  As described.

* src/ftinspect/maingui.cpp, src/ftinspect/maingui.hpp:
  As described.

* src/ftinspect/ftinspect.cpp: Remove dependency of `Engine` against
  `MainGUI`.

2022-09-25
 Charlie Jiang <w@chariri.moe>

[ftinspect] Move out font file managing/watching out to a new class.

Introduce the feature that rejects invalid files.

* src/ftinspect/maingui.hpp, src/ftinspect/maingui.cpp: Move `fontList`,
  `fontWatcher`, `timer` and other code related to font file managing to
  new class `FontFileManager`.

* src/ftinspect/engine.hpp, src/ftinspect/engine.cpp:
  `Engine` class now holds `FontFileManager`.
  Also, make `MainGUI` open and close fonts indirectly via `Engine`.

* src/ftinspect/fontfilemanager.hpp, src/ftinspect/fontfilemanager.cpp:
  New files.

* src/ftinspect/CMakeLists.txt, src/ftinspect/meson.build: Updated.

2022-09-25 Charlie Jiang <w@chariri.moe>

[ftinspect] Update build system settings.

* src/ftinspect/CMakeLists.txt: Fix MSVC-only options. Require Qt 5.15 and
  enable higher warning level.

* src/ftinspect/meson.build: Set C++ version. Require Qt 5.15.

2022-09-24 Alexei Podtelezhnikov <apodtele@gmail.com>

*
graph/x11/grx11.c (gr_x11_blitter_reset): Minor improvement.

2022-09-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/meson.build: No macOS driver yet.

Fixes #19.

2022-09-17 Alexei Podtelezhnikov <apodtele@gmail.com>

Revert "* src/ftlint.c (Checksum): Accept negative pitch."

This reverts commit bac9a53080b24e76a2dfe8def2b15682135b8454.
The pitch is always positive in the converted bitmap.

2022-09-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftlint.c (Checksum): Accept negative pitch.

2022-09-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (gblender_blit_init): Fix for negative pitch.

Reported by Anurag Thakur.

2022-09-15 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Clean up the cache clearance.

Use separate functions to clear the color and channel gradient
caches and call them conditionally instead of passing the switch
around.

* graph/gblender.c (gblender_clear): Separate out...
(gblender_clear_channels): ...
this function.
(gblender_use_channels): Removed.
* graph/gblender.h: Update their declarations.
* graph/gblgblit.c (gblender_blit_init, grSetTargetPenBrush):
Updated to call the above functions and formatted.

2022-09-13 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdiff.c: Add const qualifier to the executable basename.

2022-09-12 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Display_New): Handle window titles.
* src/ftcommon.h: Update its prototype.
* src/ftgamma.c, src/ftgrid.c, src/ftsdf.c, src/ftstring.c, src/ftview.c
(main): Updated accordingly.

2022-09-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdiff.c (render_state_draw), src/common.d (ft_strdup): Clean up.

2022-09-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/*.*: Add const qualifier to the executable basename.

2022-09-08 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grobjs.* (grAlloc): Return void pointer.

2022-09-06 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph]
Fortify channel cache.

Using signed short offsets in the channel cache will risk to overflow
if the current cache size is to increase. Here we switch to unsigned
index and express it in the cache units.

* graph/gblender.h (GBlenderChanKeyRec): Update `index`.
* graph/gblender.c (gblender_clear, gblender_lookup_channel,
gblender_reset_channel_key): Updated accordingly.

2022-09-06 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.* (GBlenderRec): Cosmetic changes to cache array.

2022-08-29 shugaley <https://gitlab.freedesktop.org/shugaley>

* src/ftpngout.c (FTDemo_Display_Print): Declare `code` volatile.

Fixes #18.

2022-08-29 Alexei Podtelezhnikov <apodtele@gmail.com>

* Makefile (FTCOMMON_OBJ): Add `graph` dependency, include `rsvg-port`.

2022-08-29 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Rework #ifdef GBLENDER_STORE_BYTES.

This also settles on tripling the number of channel keys, which is
a safe bet in all
circumstances. Quadrupling might only work on
64-bit architectures or with added key structure padding, without
GBLENDER_STORE_BYTES defined.

* graph/gblender.h (GBlenderCell): Change definition.
* graph/gblblit.c (GDST_STOREB): Updated accordingly.
* graph/gblender.c (gblender_clear, gblender_reset_key,
  gblender_lookup, gblender_lookup_channel): Ditto.

2022-08-28 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Better hash function and a fix.

* graph/gblender.c (gblender_clear): Initialize recently grown array.
(gblender_lookup_channel): Improve hash function.

2022-08-28 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_lookup): Quest for perfect hash function.

2022-08-28 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Minor fixes.

(gblender_clear): Initialize with black background, whereas
foreground stays invalid.
(gblender_lookup_channel): Increase cache utilization.

2022-08-26 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph]
Slight optimization of cached gradients.

This saves about 1% of `ftgrid` execution time.

* graph/gblender.c (gblender_reset_key, gblender_reset_channel_key):
Implement faster gradients, which are rounded anyway.

2022-08-25 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Rework cache management.

With more complex rendering in `ftgrid`, the old cache management
resulted in excessive clashes and slow `gblender_lookup`. It is
better to replace the clashing entries than to preserve them and
search for an available spot in the table. This saves about 10%
of execution time in `ftgrid` without much effect on the others.

* graph/gblender.c (gblender_lookup): Replace old clashing entries
and hash function.
(gblender_lookup_channel): Ditto.
* graph/gblender.h (GBlenderRec): Remove `stat_clears`.

2022-08-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_lookup*): Count clashes directly.

2022-08-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph]
Count the number of hash clashes.

The hash table lookups take very noticeable time when rendering is
complex like in `ftgrid`. This can help optimize the hash function.

* graph/gblender.h (GBLENDER_STATS): New field for clashes.
* graph/gblender.c (gblender_init, gblender_lookup{,_channel},
gblender_dump_stats): Initialize, collect, and report clashes.

2022-08-18 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Fix mishandling of LCDv formats.

* graph/gblblit.c (gblender_blit)init): Triple the LCDv pitch.
* graph/gblany.h (_gblender_blit_{vrgb,vbgr}_*): Updated accordingly.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c: Minor.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (grBlitGlyphToSurface): Remove redundant check.

The rare empty glyphs will be caught later in `gblender_blit_init`.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_set_gamma_table):
Reintroduce linear loops.

2022-08-17 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_set_gamma_table): Updated sRGB ramps.

When we use finite approxination it is more appropriate to use the
actual values for the linear portion instead of the standard ones.

2022-08-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/common.c (utf8_next): Use more efficient algorithm.

2022-08-15 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_String_Set): Refactor.

2022-08-15 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Make_Encoding_Tag): Refactor.

2022-08-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblender.c (gblender_set_gamma_table): Minor improvements.

2022-08-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Draw_Header): Show non-trivial face index.

This is a useful hint if a file contains multiple faces.

2022-08-07 Alexei Podtelezhnikov <apodtele@gmail.com>

*
src/win32/grwin32.c: Cosmetic updates.

2022-08-06 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid,ftmulti,ftstring,ftview] Document optional size.

* man/ftgrid.1, man/ftmulti.1, man/ftstring.1, man/ftview.1: Update.
* src/ftgrid.c, src/ftmulti.c, src/ftstring.c, src/ftview.c: Ditto.

2022-08-05 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid,ftmulti,ftstring,ftview] Make the size optional.

* src/ftgrid.c (parse_cmdline), src/ftview.c (parse_cmdline),
src/ftstring.c (parse_cmdline), src/ftmulti.c (main): Fallback on
a default size if it is missing on the command line.

2022-07-30 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c: Sync with freetype.

2022-07-30 Werner Lemberg <wl@gnu.org>

* src/ftlint.c (main): Check number of glyphs.

Problem reported by Marc Schönefeld <marc.schoenefeld@gmx.org>.

2022-07-30 Werner Lemberg <wl@gnu.org>

[ftgrid] Fix memory-related problems.

Reported by Marc Schönefeld <marc.schoenefeld@gmx.org>.

*
src/ftgrid.c (bitmap_scale): Limit bitmap size.
(grid_status_draw_outline): Handle errors in `FT_Get_Glyph`.

2022-07-11 Charlie Jiang <w@chariri.moe>

[meson] Add option to disable librsvg dependency.

As discussed in #14.

Currently, 'librsvg' is used to render OT-SVG glyphs. However, 'librsvg' is
far from simple to build as it requires tons of transitive dependencies,
especially on Windows.

Therefore we introducee a configuration option to switch 'librsvg' on or
off. This is trivial because the source code itself already honors a
`HAVE_LIBRSVG` macro.

* meson_options.txt: Add `librsvg` option (feature), defaulting to
`enabled`.

* meson.build: Honor the option above.

2022-06-28 Charlie Jiang <w@chariri.moe>

[ftinspect] Drop QMake, add CMake.

* src/ftinspect/CMakeLists.txt: Add CMake build file for `ftinspect`.

* src/ftinspect/ftinspect.pro: Remove QMake build file.

Fixes #11

2022-06-28 Charlie Jiang <w@chariri.moe>

* /src/ftinspect/.gitignore: Ignore
Visual Studio specific files.

This is for `ftinspect`.

2022-06-28 Charlie Jiang <w@chariri.moe>

[ftinspect] Eliminate compile warnings.

* src/ftinspect/engine.hpp: Use `uintptr_t` as type for `faceCounter`
instead of `int`.

* src/ftinspect/engine.cpp: Changing all casts to use `FTC_IDType` type
(=`uintptr_t`) we defined.

Fixes #10.

2022-06-21 Hugh McMaster <hugh.mcmaster@outlook.com>

* Makefile: Append CPPFLAGS to CFLAGS so that they work in `graph`.

2022-06-06 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftcommon.c (FTDemo_Hinting_Engine_Change): Minor fix.

2022-06-05 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftbench.c (main): Minor.

2022-06-04 Alexei Podtelezhnikov <apodtele@gmail.com>

 [ftbench] Minor tweaks.

 * builds/windows/msvc/ftbench.vcxproj: Do not depend on "common.c".
 * src/ftbench.c: Do not include "common.h".
 (main): Minor output optimization.

2022-06-03 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftdump.c (main):
 Report filename.

2022-06-03 Alexei Podtelezhnikov <apodtele@gmail.com>

 * subprojects/zlib.wrap: Update to zlib version 1.2.12.

2022-06-02 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftbench.c (main): Indicate memory-mapped fonts.

2022-05-26 Alexei Podtelezhnikov <apodtele@gmail.com>

 [ftbench] Create more concise and informative header.

 * src/ftbench.c (header): Report face, driver, and target info.
 Borrowed from `FTDemo_Get_Info`.
 (main): Remove and rearrange output.

2022-05-25 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftbench.c (main): Output spaces before units.

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftbench.c (main): Reformat output (cont'd).

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftbench.c (main): Reformat output.

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

 * src/ftbench.c (main): Check the number of glyphs.

 Fixes #8.

2022-05-24 Alexei Podtelezhnikov <apodtele@gmail.com>

 *
 graph/win32/grwin32.c: Do not include <string.h>, formatting.

2022-05-23 Alexei Podtelezhnikov <apodtele@gmail.com>

 [graph/win32] Simplify icon setting further.

 * graph/win32/grwin32.c (gr_win32_surface_set_icon): Use `CreateIcon`.

2022-05-23 Alexei Podtelezhnikov <apodtele@gmail.com>

 [graph/win32] Simplify icon setting.

 * graph/win32/grwin32.c (gr_win32_surface_set_icon): Use basic
 `CreateBitmap` for color, which seems to work.

2022-05-22 Alexei Podtelezhnikov <apodtele@gmail.com>

 This reverts commit 454797135a90.

 * graph/win32/grwin32.c (gr_win32_surface_refresh_rectangle): Revert
 to fix the 24 bpp rectangle invalidation.

2022-05-19 Alexei Podtelezhnikov <apodtele@gmail.com>

 * graph/win32/grwin32.c (gr_win32_surface_refresh_rectangle): Minor move.

2022-05-01 Werner Lemberg <wl@gnu.org>

 * Version 2.12.1 released.
 ==========================

 Tag sources with 'VER-2-12-1'.

 * README: Updated.
 * meson.build: Updated.
 * man/*.1: Updated.

2022-04-09

Charlie Jiang <w@chariri.moe>

[windows] Fix IME freezing window, don't filter messages by HWND

* graph/win32/grwin32.c (Window_ThreadProc): Remove HWND filter of GetMessage call

2022-04-08 Charlie Jiang <w@chariri.moe>

[windows] Fix some GUI keys not working

* graph/win32/grwin32.c (gr_win32_surface_listen_event, Message_Process): Switch to custom Windows messaage ID.

2022-03-31 Werner Lemberg <wl@gnu.org>

* Version 2.12.0 released.
==========

Tag sources with 'VER-2-12-0'.

* README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

* Makefile (dist): Generate `ChangeLog` entries for all commits since
version 2.11.0 (when we stopped creating this file manually).

2022-03-31 Werner Lemberg <wl@gnu.org>

Fix clang++ warnings.

* src/ftsdf.c (event_font_update, write_header, draw), src/rsvg-port.c
(rsvg_port_preset_slot): Add or remove casts.

2022-03-24 Anuj Verma <anuj@womp.xyz>

[ftsdf] Fix segmentation fault.

* src/ftsdf.c (draw):
Use integer to avoid overflow while reverse
looping `j`.

2022-02-19 Werner Lemberg <wl@gnu.org>

/: Replace header macros with file names.

We already did the same some time ago in the FreeTye library.

Also remove redundant inclusion of some header macros.

2022-02-19 Ben Wagner <bungeman@chromium.org>

[ftview] Handle foreground COLR.

* src/ftview.c (Render_All): handle 0xFFFF `layer_color_idx` without
crashing.

2022-02-11 Werner Lemberg <wl@gnu.org>

[ftdump] Emit PS dictionary info for option `-n` if available.

* src/ftdump.c: Include `FT_TYPE1_TABLES_H`.
(Print_Array): New function.
(Print_FontInfo_Dictionary, Print_FontPrivate_Dictionary): New functions.
(main): Use them.
(usage): Updated.

2022-02-06 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] Add `rsvg` port to project files.

* builds/windows/msvc/ftgamma.vcxproj: Updated.
* builds/windows/msvc/ftgrid.vcxproj: Updated.
* builds/windows/msvc/ftstring.vcxproj: Updated.
* builds/windows/msvc/ftview.vcxproj:
Updated.

2022-02-05 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid] Minor tweaks.

* src/ftgrid.c (scale_bitmap): Take the buffer immediately.
(DO_BITMAP): Minor.
* src/ftcommon.c (FTDemo_Glyph_To_Bitmap): Clarify ownership.

2022-02-05 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c (bitmap_scale): Implement BGRA scaling.

2022-02-05 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid] Implement embedded bitmap toggle.

* src/ftgrid.c (grid_status_draw_outline): Undo the last change.
(Process_Event): Implement the embedded bitmap toggle and shift
some other toggle keys for consistency.

(event_help, main): Updated.

2022-02-01 Werner Lemberg <wl@gnu.org>

src/ftgrid.c (grid_status_draw_outline): Enable embedded bitmaps.

Previously, bitmap-only fonts were displayed but bitmap strikes were not.

2022-01-30 Werner Lemberg <wl@gnu.org>

src/ftinspect/ftinspect.pro (PKGCONFIG, LIBS): Add 'librsvg'.

2022-01-28 Werner
Lemberg <wl@gnu.org>

* meson.build: We need 'librsvg' version 2.46.0 or newer.

Older versions don't have function `rsvg_handle_get_intrinsic_dimensions`.

2022-01-26 Werner Lemberg <wl@gnu.org>

* meson.build: Fix typo.

2022-01-25 Werner Lemberg <wl@gnu.org>

Use 'librsvg' conditionally.

* src/ftcommon.c, src/rsvg-port.c: Guard SVG code with `HAVE_LIBRSVG`.

2022-01-23 Werner Lemberg <wl@gnu.org>

* src/ftcommon.c (FTDemo_New): Update to recent FreeType change.

2022-01-23 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Reshuffle some headers.

* graph/grobjs.c, graph/grobjs.h, graph/win32/grwin32.c: Updated.

2022-01-20 Moazin Khatti <moazinkhatri@gmail.com>

Prototype SVG support.

* src/rsvg-port.c, src/rsvg-port.h: New files, providing SVG rendering hooks
using the 'librsvg' library.

* src/ftcommon.c: Include `FT_OTSVG_H` and `rsvg-port.h`.
(FTDemo_New): Set SVG renderer hooks.

(FTDemo_Glyph_To_Bitmap): Also accept SVG glyph format.

* Makefile:
Update for recent FreeType changes; the library's `configure`
script now tests for 'librsvg'.
(COMPILE): Updated to use `FT_DEMO_CFLAGS` for normal compilation, and
manually adding flags for 'librsvg' otherwise.
Update all users.
(LINK_LIBS): Updated to use `FT_DEMO_LDFLAGS` for normal compilation, and
manually adding flags for 'librsvg' otherwise.
(COMMON_OBJ): Updated
(rsvg-port): New rule.

* meson.build (librsvg_dep): New dependency.
(ftcommon_lib): Add `rsvg-port.*` files and update dependencies.

2022-01-16 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Fix up the key event handling.

* graph/win32/grwin32.c (key_translators): Do not translate the keys
that Windows translates. We used to by-pass the system.
(gr_win32_surface_listen_event): Move custom translations from here...
(Message_Process): ... to here, which reduces the message posting.

2022-01-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftgrid] Use lighter gridlines to improve readability.

*
src/ftgrid.c (grid_status_colors, grid_status_alt_colors): Updated.

2022-01-11 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftgrid.c (write_header): Show page with glyph number or code.

2022-01-11 Werner Lemberg <wl@gnu.org>

Update all copyright notices.

2022-01-11 Werner Lemberg <wl@gnu.org>

* subprojects/libpng.wrap, subprojects/zlip.wrap: Update from upstream.

2022-01-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (gblender_blit_init): Remove double dereferencing.

2022-01-08 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Fix negative pitch issues.

Some cropping issues were identified by forcing unusual negative
pitch in glyphs. This fixes those issues and removes some unused
fields.

* graph/gblblit.c (GBlenderBlitRec): Remove unused fields.
* graph/gblblit.c (graph/gblblit.c): Revise negative pitch code.
* graph/gblender.h (gblender_dump_stats): Remove macro semicolon.

2022-01-07 Werner Lemberg <wl@gnu.org>

* src/ftcommon.c
(icon_span): Fix undefined left-shift behaviour.

2022-01-07 Werner Lemberg <wl@gnu.org>

graph/grobjs.c (grFindColor): Fix undefined left-shift behaviour.

2022-01-01 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Consolidate resizing calls.

Suggested by Dmitry Timoshkov.

* graph/win32/grwin32.c (gr_win32_surface_listen_event): Purge
obsolete WM_RESIZE.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c: Logging and formatting clean-ups.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Implement smooth resizing.

The window creation and the message loop has to be put in a separate
thread in order to achieve smooth resizing. Othrewise, the modal
loop cannot be interrupted to redraw the canvas. The main thread
also has a loop to receive the reposted messages, to update the
canvas and send WM_PAINT back via UpdateWindow. After this update
the win32 resizing feels similar to the X11 resizing.

*
graph/win32/grwin32.c (grWin32Surface): Store the host thread id.
(gr_win32_surface_init): Spin off `CreateWindow` from here...

(Window_ThreadProc): ... to here and run the window message loop.
(Message_Process): Updated to repost messages to the host thread.
(gr_win32_surface_listen_event): Run the host thread message loop.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_init): Check allocations.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (FTDemo_Done): Flush stdout for mintty.

2021-12-31 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph/win32] Improve surface initialization.

* graph/win32/grwin32.c (gr_win32_surface_init): Allocate bitmaps by
calling `gr_win32_surface_resize`.

2021-12-11 Ben Wagner <bungeman@chromium.org>

[ftbench] Free stroker when done.

LeakSanitizer reported that the stroker object was being leaked.
Properly free it with FT_Stroker_Done. (!14)

* src/ftbench.c
(test_stroke): Free stroker.

2021-12-02 Werner Lemberg <wl@gnu.org>

* Version 2.11.1 released.
==========================

Tag sources with 'VER-2-11-1'.

* README: Updated.
* meson.build: Updated.
* man/*.1: Updated.

* ChangeLog: Renamed to ...
* ChangeLog.old: ... this.

* Makefile (version_tag, CHANGELOG_SCRIPT): New variables.
(dist): Generate `ChangeLog` file with all commits since last release.

2021-11-30 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Minor clean-ups.

* graph/gblender.c (gblender_reset_key): Remove unnecessary masks.
* graph/gblany.h (*vrgb*, *vbgr*): Remove redundant casts.

2021-11-25 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/gblblit.c (gblender_blit_init): Remove dummy fallback.

2021-11-24 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/*.*: Remove legacy blitter ghosts.

2021-11-24 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Revise function arguments.

* graph/gblblit.c (grSetTargetGamma, grSetTargetPenBrush):
Input
surface instead of bitmap as more appropriate.
* graph/graph.h (grSetTargetGamma, grSetTargetPenBrush): Update
decarations.
* graph/grdevice.c, src/ftcommon.c, src/ftdiff.c: Update callers.

2021-11-22 Werner Lemberg <wl@gnu.org>

Whitespace, typos, other minor issues.

2021-11-22 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Show empty charmaps if error, including UVS.

* src/ftcommon.c (get_last_char): Call `FT_Set_Charmap` and handle
its errors effectively setting `num_indices` to 0.
* src/ftview.c (event_index_change, event_encoding_change): Updated.

2021-11-22 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_Charmaps): Do not iterate UVS charmaps.

2021-11-20 Werner Lemberg <wl@gnu.org>

* graph/*: Fix clang compilation warnings.

Add casts for signed vs. unsigned issues.

2021-11-20 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Report the last shown index or charcode.

Together with the index or charcode
limit, it gives a sense of the
portion of the font under review. This is reported at the bottom-
left corner.

* src/ftview.c (main): Pass the last shown index instead of error.
(Render_*): Return the last shown index, charcode, or -1.
(write_header): Receive and display the last shown index or charcode.

2021-11-18 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftcommon.c (get_last_char): Speed up sparse convergence.

2021-11-17 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftview] Report the last available index or charcode.

* src/ftcommon.c (get_last_char): Implement the binary search for
the last charcode using `FT_Get_Next_Char`.
(FTDemo_Set_Current_Font): Set the number of indices accordingly.
* src/ftview.c (write_header): Display the last charcode or index.

2021-11-17 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Complete removal of legacy blitter.

This switches the remaing monochrome rendering of headers to the main
blender and deletes the
legacy blitter. The old blitter can handle
exotic target surfaces like monochrome or 4-bit bitmaps. Anything
beyond the alpha blender can do.

* graph/grfont.c (grWriteCellChar, grWriteCellString): Switch from
`grBlitGlyphToBitmap` to `grBlitGlyphToSurface`.
* graph/grblit.[ch]: Delete files.
* graph/graph.h, graph/grconfig.h: Remove references.
* graph/rules.mk, graph/meson.build, vms_make.com,
builds/windows/msvc/migs.vcxproj: Update build scripts.

2021-11-15 Werner Lemberg <wl@gnu.org>

* src/*: Fix clang warnings.

All of them are minor and belong to one of the following categories:

* signedness casts

* corrected `printf` signatures
* missing `static` keyword for local functions

2021-11-15 Werner Lemberg <wl@gnu.org>

[ftbench] Fix clang warnings.

* src/ftbench.c (first_index, last_index): Make these two global variables
signed, to be of the same type as `incr_index` (which can be positive or
negative).
Update all related code.

2021-11-15 Alexei Podtelezhnikov
<apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_surface_set_icon): Add background.

2021-11-15 Alexei Podtelezhnikov <apodtele@gmail.com>

Minor.

2021-11-12 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] Use `props` to share dependencies.

Merges !12 from @ubawurinna.

* builds/windows/msvc/ft2demos.props: Consolidate FreeType dependencies.
* builds/windows/msvc/*.vcxproj: Updated.

2021-10-31 Alexei Podtelezhnikov <apodtele@gmail.com>

[builds/windows] New project and solution files.

These files can be used to build selected FreeType demo programs
using Microsoft Visual C++. FreeType should be compiled in the
parallel folder with freetype.lib available in freetype\objs\
for compilation. The executables will be delivered into
freetype-demos\bin\ and expect freetype.dll there as well.

* builds/windows/msvc/ft2demos.sln: Solution file.
* builds/windows/msvc/*.vcxproj: Project files.

2021-10-26 Alexei Podtelezhnikov <apodtele@gmail.com>

*
Makefile: Remove obsolete rule.

2021-10-26 Alexei Podtelezhnikov <apodtele@gmail.com>

* Makefile: Reduce FT2_BUILD_FREETYPE usage

Public macro FT_FACE_DRIVER_NAME utilized in d01c79af9838 makes
FT2_BUILD_LIBRARY unnecassary in most cases.

* src/ftinspect/ftinspect.pro: Ditto.

2021-10-23 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grblit.c (grBlitClean): Fix warnings.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grblit.c (grGetSaturation, grBlitClean): Dead fixes.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

Minor.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grblit.c (grGetSaturation): Fix return value.

2021-10-22 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Avoid unnecessary memory zeroing.

* graph/x11/grx11.c (gr_x11_surface_init): Call `malloc` explicitly.
* graph/grblit.c (grGetSaturation, grGetConversion): Call `malloc`
and `memset` explicitly even though this code is unused.

2021-10-18
 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grdevice.c (grWriteSurface{Char,String}): Use GR_FONT_SIZE.

2021-10-18 Alexei Podtelezhnikov <apodtele@gmail.com>

[graph] Do not zero a new bitmap.

The `grNewBitmap` function is mostly used to allocate and resize
canvas, which is shortly flooded with a background color. There is
no need to zero it.

* graph/grobjs.c (grNewBitmap): Always call `realloc` directly,
which does not initialize the buffer.

* graph/grobjs.c (grNewBitmap): Update description.

2021-10-13 Hugh McMaster <hugh.mcmaster@outlook.com>

graph/x11/rules.mk: Use standard pkg-config variable naming

2021-10-13 Hugh McMaster <hugh.mcmaster@outlook.com>

graph/x11/rules.mk: Use pkg-config to find the X11 headers and library

2021-10-07 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftinspect/engine/engine.cpp: Include FT_MODULE_H.

Fixes #2.

2021-10-05 Jouk Jansen <joukj@hrem.stm.tudelft.nl>

* vms_make.com: Updated to include
more demos.

2021-10-03 Alexei Podtelezhnikov <apodtele@gmail.com>

Synchronize with FreeType.

* src/ftcommon.c (FTDemo_Hinting_Engine_Change, FTDemo_Get_Info):
Use new public `FT_FACE_DRIVER_NAME` macro.
* src/ftdump.c (Print_Type): Ditto.
* src/ftdiff.c (process_event, render_state_draw): Ditto.
* src/ftinspect/engine/engine.cpp (loadFont): Ditto.

2021-10-01 Jouk Jansen <joukj@hrem.stm.tudelft.nl>

* graph/grtypes.h [__VMS]: Accomodate non-compliant C99.

2021-10-01 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/win32/grwin32.c (gr_win32_device_init): Use neutral background.

2021-09-30 Jouk Jansen <joukj@hrem.stm.tudelft.nl>

* vms_make.com, src/mlgetopt.h [VMS]: Updated.

2021-09-30 Alexei Podtelezhnikov <apodtele@gmail.com>

* graph/grtypes.h: Don't give up on <stdint.h>.

2021-09-16 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_Name): Reformat font revision.

2021-09-10 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c
(Print_Name): Ignore negative pre-epoch time.

2021-09-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_Name): Avoid negative pre-epoch time.

2021-09-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_Programs, Print_Glyfs): Handle no-data glyphs.

2021-09-09 Alexei Podtelezhnikov <apodtele@gmail.com>

* src/ftdump.c (Print_Programs, Print_Glyfs): Generalize messages.

2021-08-26 Alexei Podtelezhnikov <apodtele@gmail.com>

[ftstring] Loop through a custom string if present.

* src/ftstring.c (Sample): Use the initial pointer for a custom string.
(parse_cmdline): Assing the pointer here if any.
(event_text_change): Loop through the pointer if set.
(main): Minor tweak.

2021-07-24 Werner Lemberg <wl@gnu.org>

* meson.build: Build `ttdebug`.

Problem reported by Andreas Radke <andreas.radke@mailbox.org>.

2021-07-24 Werner Lemberg <wl@gnu.org>

* meson.build: Sort executable rules.

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/ChangeLog
No license file was found, but licenses were detected in source scan.

```
/*
*  This is a cheap replacement for getopt() because that routine is not
*  available on some platforms and behaves differently on other platforms.
*  This code was written from scratch without looking at any other
*  implementation.
```

*
* This code is hereby expressly placed in the public domain.
* mleisher@crl.nmsu.edu (Mark Leisher)
* 10 October 1997
*
* Last update 2019-06-10.
*/

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/mlgetopt.c
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/**
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**/

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/mac/getargv.c
No license file was found, but licenses were detected in source scan.

/**
*
* grwin32.c graphics driver for Win32 platform
*
* This is the driver for displaying inside a window under Win32,
* used by the graphics utility of the FreeType test suite.
*

```
*  Written by Antoine Leca.
*  Copyright (C) 1999-2023 by
*  Antoine Leca, David Turner, Robert Wilhelm, and Werner Lemberg.
*
*  Borrowing liberally from the other FreeType drivers.
*
*  This file is part of the FreeType project, and may only be used
*  modified and distributed under the terms of the FreeType project
*  license, LICENSE.TXT. By continuing to use, modify or distribute
*  this file you indicate that you have read the license and
*  understand and accept it fully.
*
*************************************************************************/
```

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/win32/grwin32.c
No license file was found, but licenses were detected in source scan.

```
/*************************************************************************
*
*  grbeos.c  graphics driver for BeOS platform.            0.1
*
*  This is the driver for displaying inside a window under BeOS,
*  used by the graphics utility of the FreeType test suite.
*
*  Written by Michael Pfeiffer.
*  Copyright (C) 2001-2023 by
*  Michael Pfeiffer
*
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*  modified and distributed under the terms of the FreeType project
*  license, LICENSE.TXT. By continuing to use, modify or distribute
*  this file you indicate that you have read the license and
*  understand and accept it fully.
*
*************************************************************************/
```

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/beos/grbeos.cpp
No license file was found, but licenses were detected in source scan.

```
/*
*  This is a cheap replacement for getopt() because that routine is not
*  available on some platforms and behaves differently on other platforms.
*
*  This code is hereby expressly placed in the public domain.
*  mleisher@crl.nmsu.edu (Mark Leisher)
*  10 October 1997
```

```
*/
```

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/mlgetopt.h
No license file was found, but licenses were detected in source scan.

```
/************************************************************************
*
*  grbatch.c  Batch processing driver.
*
*  This driver maintains the image in memory without displaying it,
*  used by the graphics utility of the FreeType test suite.
*
*  Copyright (C) 1999-2023 by
*  David Turner, Robert Wilhelm, and Werner Lemberg.
*
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*  this file you indicate that you have read the license and
*  understand and accept it fully.
*
************************************************************************/
```

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/batch/grbatch.c
No license file was found, but licenses were detected in source scan.

```
/*
* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
* MD5 Message-Digest Algorithm (RFC 1321).
*
* Homepage:
* http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5
*
* Author:
* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
*
* This software was written by Alexander Peslyak in 2001.  No copyright is
* claimed, and the software is hereby placed in the public domain.
* In case this attempt to disclaim copyright and place the software in the
* public domain is deemed null and void, then the software is
* Copyright (c) 2001 Alexander Peslyak and it is hereby released to the
* general public under the following terms:
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted.
*
```

* There's ABSOLUTELY NO WARRANTY, express or implied.
*
* See md5.c for more information.
*/

Found
 in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/md5.h
No license file was found, but licenses were detected in source scan.

/**
*
* grx11.h graphics driver for X11 (header)
*
* This is the driver for displaying inside a window under X11,
* used by the graphics utility of the FreeType test suite.
*
* Copyright (C) 1999-2023 by
* Antoine Leca, David Turner, Robert Wilhelm, and Werner Lemberg.
*
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* this file you indicate that you have read the license and
* understand and accept it fully.
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Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/graph/x11/grx11.h
No license file was found, but licenses were detected in source scan.

/**
*
* grmac.c graphics driver for MacOS platform.
*
* This is the driver for displaying inside a window under MacOS,
* used by the graphics utility of the FreeType test suite.
*
* Largely written by Just van Rossum, but derived from grwin32.c.
* Copyright (C) 1999-2023 by
* Just van Rossum, Antoine Leca,
* David Turner, Robert Wilhelm, and Werner Lemberg.
*
* Borrowing liberally from the other FreeType drivers.
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Found in path(s):
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<p>License:

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/ftinspect/maingui.cpp
No license file was found, but licenses were detected in source scan.

/**
*
* rsvg-port.c
*
*   Librsvg-based hook functions for OT-SVG rendering in FreeType
*   (implementation).
*
* Copyright (C) 2022-2023 by
* David Turner, Robert Wilhelm, Werner Lemberg, and Moazin Khatti.
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/**
*
* rsvg-port.h
*
*   Librsvg based hook functions for OT-SVG rendering in FreeType
*   (headers).
*
* Copyright (C) 2022-2023 by
* David Turner, Robert Wilhelm, Werner Lemberg, and Moazin Khatti.
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/*
* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
* MD5 Message-Digest Algorithm (RFC 1321).
*
* Homepage:
* http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5
*
* Author:
* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
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 *
* This differs from Colin Plumb's older public domain implementation in that
* no exactly 32-bit integer data type is required (any 32-bit or wider
* unsigned integer data type will do), there's no compile-time endianness
* configuration, and the function prototypes match OpenSSL's. No code from
* Colin Plumb's implementation has been reused; this comment merely compares
* the properties of the two independent implementations.
*
* The primary goals of this implementation are portability and ease of use.
* It is meant to be fast, but not as fast as possible. Some known
* optimizations are not included to reduce source code size and avoid
* compile-time configuration.
*/

Found in path(s):
* /freetype-2-13-2-dfsg-orig-ft2demos-tar-xz/ft2demos-2.13.2/src/md5.c
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1.390 nspr 2:4.35-1.1build1

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1.392 more-itertools 8.8.0

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1.393 cachecontrol 0.13.1

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```
on:
 release:
   types:
     - published

name: release

jobs:
 pypi:
   name: upload release to PyPI
   runs-on: ubuntu-latest

   permissions:
     # Used to authenticate to PyPI via OIDC.
     # Used to sign the release's artifacts with sigstore-python.
     id-token: write
```

```
    # Used to attach signing artifacts to the published release.
    contents: write

  steps:
  - uses: actions/checkout@v3

  - uses: actions/setup-python@v4
    with:
      python-version: ">= 3.6"

  - name: deps
    run: python -m pip install -U build

  - name: build
    run: python -m build

  - name: publish
    uses: pypa/gh-action-pypi-publish@release/v1

  - name: sign
    uses: sigstore/gh-action-sigstore-python@v1.2.3
    with:
      inputs: ./dist/*.tar.gz ./dist/*.whl
      release-signing-artifacts: true
[build-system]
requires = ["flit_core >=3.2,<4"]
build-backend = "flit_core.buildapi"

[tool.flit.module]
name = "cachecontrol"

[tool.flit.sdist]
include = ["tests/"]

[project]
name = "CacheControl"
dynamic = ["version"]
description = "httplib2 caching for requests"
readme = "README.rst"
license = { file = "LICENSE.txt" }
authors = [
  { name = "Eric Larson", email = "ericlarson@ionrock.com" },
  { name = "Frost Ming", email = "me@frostming.com" },
  { name = "William Woodruff", email = "william@yossarian.net" },
]
classifiers = [
  "Development Status :: 4 - Beta",
  "Environment :: Web Environment",
```

```
  "License :: OSI Approved :: Apache Software License",
  "Operating System :: OS Independent",
  "Programming Language :: Python :: 3.6",
  "Programming Language :: Python :: 3.7",
  "Programming Language :: Python :: 3.8",
  "Programming Language :: Python :: 3.9",
  "Programming Language :: Python :: 3.10",
  "Programming Language :: Python :: 3.11",
  "Topic
 :: Internet :: WWW/HTTP",
]
keywords = ["requests", "http", "caching", "web"]
dependencies = ["requests >= 2.16.0", "msgpack >= 0.5.2"]
requires-python = ">=3.7"

[project.urls]
Homepage = "https://pypi.org/project/CacheControl/"
Issues = "https://github.com/psf/cachecontrol/issues"
Source = "https://github.com/psf/cachecontrol"

[project.optional-dependencies]
# End-user extras.
filecache = ["filelock >= 3.8.0"]
redis = ["redis>=2.10.5"]

# Development extras.
dev = [
  "CacheControl[filecache,redis]",
  "build",
  "mypy",
  "tox",
  "pytest-cov",
  "pytest",
  "cherrypy",
  "sphinx",
  "black",
  "types-redis",
  "types-requests",
]

[project.scripts]
doesitcache = "cachecontrol._cmd:main"

[tool.mypy]
show_error_codes = true
strict = true
enable_error_code = ["ignore-without-code", "redundant-expr", "truthy-bool"]
```

```
[[tool.mypy.overrides]]
module = "msgpack"
ignore_missing_imports = true

[tool.pytest.ini_options]
norecursedirs = ["bin", "lib", "include", "build"]
```
Contributing to CacheControl

Thank you for your interest in contributing to `CacheControl`!

The information below will help you set up a local development environment
and perform common development tasks.

Requirements

`CacheControl`'s only external development requirement is Python 3.7 or newer.

Development steps

First, clone this repository:

```bash
git clone https://github.com/psf/cachecontrol
cd cachecontrol
```

Then, bootstrap your local development environment:

```bash
make bootstrap
# OPTIONAL: enter the new environment, if you'd like to run things directly
source .venv/bin/activate
```

Once you've run `make bootstrap`, you can run the other `make` targets
to perform particular tasks.

Any changes you make to the `cachecontrol` source tree will take effect
immediately in the development environment.

Linting

You can run the current formatters with:

```bash
make format
```

Testing

You can run the unit tests locally with:

```bash
# run the test suite in
 the current environment
make test

# OPTIONAL: use `tox` to fan out across multiple interpreters
make test-all
```

Documentation

You can build the Sphinx-based documentation with:

```bash
# puts the generated HTML in docs/_build/html/
make doc
```

Releasing

NOTE: If you're a non-maintaining contributor, you don't need the steps
here! They're documented for completeness and for onboarding future maintainers.

Releases of `CacheControl` are managed by GitHub Actions.

To perform a release:

1. Update `CacheControl`'s `__version__` attribute. It can be found under
  `cachecontrol/__init__.py`.

1. Create a new tag corresponding to your new version, with a `v` prefix. For example:

  ```bash
  # IMPORTANT: don't forget the `v` prefix!
  git tag v1.2.3
  ```

1. Push your changes to `master` and to the new remote tag.

1. Create, save, and publish a GitHub release for your new tag, including any
  `CHANGELOG` entries.
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```
name: CI

on:
 push:
  branches: ["master"]
 pull_request:
  branches: ["master"]
 workflow_dispatch:

jobs:
 tests:
  name: "Python ${{ matrix.python-version }} ${{ matrix.os }}"
  runs-on: "${{ matrix.os }}"

  strategy:
   fail-fast: false
   matrix:
    python-version: ["3.7", "3.8", "3.9", "3.10", "3.11"]
    os: ["macos-latest", "windows-latest", "ubuntu-latest"]

  steps:
   - uses: "actions/checkout@v3"
   - uses: "actions/setup-python@v4"
     with:
      python-version: "${{ matrix.python-version }}"
   - name: "Install dependencies"
     run: |
      python -VV
      python -m site
      python -m pip install --upgrade pip setuptools wheel
      python -m pip install --upgrade virtualenv tox tox-gh-actions

   - name: "Run tox targets for ${{ matrix.python-version }}"
     run: "python -m tox"
```

1.394 libreadline 8.2-4build1

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 /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
subtypes:
* <ul>
* <li>{@link
 ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object.  A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object.  Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
 or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
```

```
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
*             } else {
*                 fail();
*             }
*
 }
*     }
*     ...
* }
* </pre>
* Because the handler instance has a state variable which is dedicated to
* one connection, you have to create a new handler instance for each new
* channel to avoid a race condition where an unauthenticated client can get
* the confidential information:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
```

```
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
 * <pre>
* public interface Message {
*     // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*           {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the
 state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();
*
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>SHARED</b>);
*     }
* }
* </pre>
*
*
* <h4>The {@code @Sharable} annotation</h4>
```

```
* <p>
* In the example above which used an {@link AttributeKey},
* you might have noticed the {@code @Sharable} annotation.
* <p>
* If a {@link ChannelHandler} is annotated with the {@code @Sharable}
* annotation, it means you can create an instance of the handler just once and
* add it to one or more {@link ChannelPipeline}s multiple times without
* a race condition.
* <p>
* If this annotation is not specified, you have to create
 a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* <p>
* This annotation is provided for documentation purpose, just like
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <h3>Additional resources worth reading</h3>
* <p>
* Please refer to the {@link ChannelHandler}, and
* {@link ChannelPipeline} to find out more about inbound and outbound operations,
* what fundamental differences they have, how they flow in a  pipeline,  and how to handle
* the operation in your application.
*/
```

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* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java
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* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java
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* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/internal/ChannelUtils.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
*
 /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/internal/package-info.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/bootstrap/FailedChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/PendingBytesTracker.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
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* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/nio/package-info.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/AbstractChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java
*
 /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelPipelineException.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelFuture.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
*
 /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/Channel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/nio/NioTask.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelPromise.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelPipeline.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/DefaultEventLoop.java
*
 /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelInboundHandler.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/local/LocalServerChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/InternetProtocolFamily.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelException.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/package-info.java

* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelInitializer.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/local/package-info.java
*
 /netty-transport-4-1-107-final-sources-jar/io/netty/bootstrap/package-info.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ServerChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/EventLoopException.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/oio/package-info.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/DatagramPacket.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/VoidChannelPromise.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
*
 /netty-transport-4-1-107-final-sources-jar/io/netty/channel/group/CombinedIterator.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/FailedChannelFuture.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/EventLoop.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/AbstractServerChannel.java
*
 /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoop.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelFutureListener.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/local/LocalChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/bootstrap/Bootstrap.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/embedded/package-info.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelConfig.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java
*
 /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelMetadata.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/EventLoopGroup.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/CompleteChannelFuture.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/package-info.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/DatagramChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/oio/package-info.java

* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/DefaultChannelPromise.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/nio/package-info.java
*
 /netty-transport-4-1-107-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/FileRegion.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/group/package-info.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/nio/NioEventLoop.java
*
 /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelOption.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/DefaultFileRegion.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelHandlerContext.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/local/LocalAddress.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
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* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ChannelHandlerMask.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/ExtendedClosedChannelException.java
* /netty-transport-4-1-107-final-sources-jar/io/netty/channel/EventLoopTaskQueueFactory.java

1.399 adwaita-icon-theme 46.0-1

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* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
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*
*
* NIST submission files
* License of reference implementation
*/

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* /bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/pqc/math/ntru/package-info.java
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/**
* An implementation of RFC 7253 on The OCB
* Authenticated-Encryption Algorithm. For those still concerned about the original patents

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```
/**
* SPHINCS-256 signer.
* <p>
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
* </p>
* <p>
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
* </p>
*/
```

Found in path(s):
* /bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
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```
// now keep space is free to use
```

Found in path(s):
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```
/**
   * Magic value for proprietary OpenSSH private key.
   **/
```

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* /bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
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```
/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
* <p>
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
* <p>
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled</a> C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/
```

Found in path(s):
* /bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/crypto/macs/Poly1305.java
No license file was found, but licenses were detected in source scan.

public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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* /bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/asn1/x9/DomainParameters.java
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/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
*
* @see NIST round 3 PQC submissions page
* @see NTRU website
* @see NTRU specification
*/

Found in path(s):
* /bcprov-jdk18on-1-78-1-sources-1-jar/org/bouncycastle/pqc/crypto/ntru/package-info.java

1.401 libsystemd 255.4-1ubuntu8.11

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1.403 netty-codec 4.1.118.Final

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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
*
 /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/json/package-info.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
*
 /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
*
 /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /netty-codec-4-1-118-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
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/**
* Enumeration of supported Base64 dialects.
* <p>
* The internal lookup tables in this class has been derived from
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/BrotliMode.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java
*
 /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Brotli.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Zstd.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java

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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/ValueConverter.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /netty-codec-4-1-118-final-sources-
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
*
 /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java

* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java

* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/DateFormatter.java
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 /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/base64/package-info.java
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 /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/package-info.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/CodecException.java

* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/package-info.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/string/StringEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
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* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/EncoderException.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
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 /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
*
 /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/string/package-info.java

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*/
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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* Base64 notation.
* <p>
 * The encoding and decoding algorithm in this class has been derived from
* Robert Harder's Public Domain
* Base64 Encoder/Decoder.
*/

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*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.

```
*
 <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD".  By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content
 |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
 * </pre>
*
```

```
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*     represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
 |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
```

```
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                 AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO,
 WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
 LEN)
*
* BEFORE DECODE (16 bytes)                 AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
```

* Please note that we don't need to take the length of HDR2 into account
* because
 the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* lengthAdjustment   = -3 (= the length of HDR1 + LEN, negative)
* initialBytesToStrip = 3
*
* BEFORE DECODE (16 bytes)   AFTER DECODE (13 bytes)
* +------+--------+------+----------------+   +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+   +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/

Found in path(s):
* /netty-codec-4-1-118-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

1.404 networkd-dispatcher 2.2.4-1

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

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

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.409 vixie-cron 3.0pl1-184ubuntu2

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$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable
 stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/manl,
which will be hard since there will be name collisions. (Note that the man
command was originally written by
 Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
 to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
 you should check this out.

say:
 make all

su and say:
 make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for `replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no '&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

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* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/externs.h
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/compat.h
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/pathnames.h
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*
* @(#)bitstring.h 5.2
(Berkeley) 4/4/90
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* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/crontab.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/config.h

* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/database.c
*
 /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/job.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/misc.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/do_command.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/env.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/compat.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/cron.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/entry.c
* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/cron.h
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*/

Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta
 was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.[23] systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

 Read all the FEATURES, INSTALL, and CONVERSION files
 Edit config.h
 Edit Makefile
  (both of these files have instructions inside; note that
   some things in config.h are definable in Makefile and are
   therefore surrounded by #ifndef...#endif)
 'make'
 'su' and 'make install'
  (you may have to install the man pages by hand)
 kill your existing cron process
  (actually you can run your existing cron if you want, but why?)
 build new crontabs using /usr/lib/{crontab,crontab.local}
  (either put them all in "root"'s crontab, or divide it up
   and rip out all the 'su' commands, collapse the lengthy
   lists into
 ranges with steps -- basically, this step is
   as much work as you want to make it)
 start up the new cron
  (must be done as root)
 watch it. test it with 'crontab -r' and watch the daemon track your
  changes.
 if you like it, change your /etc/{rc,rc.local} to use it instead of
  the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

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* /cron-3-0pl1-orig-tar/cron-3.0pl1.orig/README
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1.410 jetty-util 9.4.48.v20220622

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

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* javax.servlet:javax.servlet-api
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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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1.412 nano 7.2-2ubuntu0.1

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1.415 miglayout 3.5.5

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* /miglayout-3-5-5-sources-jar/net/miginfocom/swt/MigLayout.java
*
 /miglayout-3-5-5-sources-jar/net/miginfocom/layout/BoundSize.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/ResizeConstraint.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/swt/SwtContainerWrapper.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/demo/SwtDemo.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/ComponentWrapper.java
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* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/PlatformDefaults.java
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/IDEUtil.java
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*/
/** Returns the absolute positioning of one or more of the edges. This will be applied last in the layout cycle and
will not
  * affect the flow or grid positions. The positioning is relative to the parent
 and can not (as padding) be used
  * to adjust the edges relative to the old value. May be <code>null</code> and elements may be <code>null</code>.
  * <code>null</code> value(s) for the x2 and y2 will be interpreted as to keep the preferred size and thus the x1
  * and x2 will just absolutely positions the component.
  * <p>
  * Note that {@link #setBoundsInGrid(boolean)} changes the interpretation of thisproperty slightly.
  * <p>
  * For a more thorough explanation of what this constraint does see the white paper or cheat Sheet at
```

www.migcomponents.com.
  * @return The current value as a new array, free to modify.
  */

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*/
/** Returns the gaps as pixel values.
  * @param parent The parent. Used to get the pixel values.

* @param defGap The default gap to use if there is no gap set on this object (i.e. it is null).
* @param
refSize The reference size used to get the pixel sizes.
* @param before IF it is the gap before rather than the gap after to return.
* @return The [min,preferred,max] sizes for the specified gap. Uses {@link
net.miginfocom.layout.LayoutUtil#NOT_SET}
* for gap sizes that are <code>null</code>. Returns <code>null</code> if there was no gap specified. A new and
free to use array.
*/

Found in path(s):
* /miglayout-3-5-5-sources-jar/net/miginfocom/layout/DimConstraint.java

1.416 nuid 1.0.1

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1.417 libsepol2 3.5-2build1

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

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Section 6 states terms for distribution of such executables.

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

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

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

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

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// Original can be found at:
//   https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
//   https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
//   Ref: http://www.khronos.org/registry/typedarray/specs/latest/
//   Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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1.424 python-setuptools 68.1.2-2ubuntu1.2

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1.426 zap-exp 0.3.0

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1.427 libpkit 0.25.3-4ubuntu2.1

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1.428 jersey-entity-filtering 2.28

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

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/* This is auto-generated file. See bpf_doc.py for details. */

/* Forward declarations of BPF structs */
struct bpf_fib_lookup;
struct bpf_sk_lookup;
struct bpf_perf_event_data;
struct bpf_perf_event_value;
struct bpf_pidns_info;
struct bpf_redir_neigh;
struct bpf_sock;
struct bpf_sock_addr;
struct bpf_sock_ops;
struct bpf_sock_tuple;
struct bpf_spin_lock;
struct bpf_sysctl;
struct bpf_tcp_sock;
struct bpf_tunnel_key;
struct bpf_xfrm_state;
struct linux_binprm;
struct pt_regs;
struct sk_reuseport_md;
struct sockaddr;
struct tcphdr;
struct seq_file;
struct tcp6_sock;
struct tcp_sock;
struct tcp_timewait_sock;
struct tcp_request_sock;
struct udp6_sock;
struct unix_sock;
struct task_struct;
struct cgroup;
struct __sk_buff;
struct sk_msg_md;
struct xdp_md;
struct path;
struct btf_ptr;
struct inode;
struct socket;

```
struct file;
struct bpf_timer;
struct mptcp_sock;
struct bpf_dynptr;
struct iphdr;
struct ipv6hdr;

/*
* bpf_map_lookup_elem
*
*  Perform a lookup in *map* for an entry associated
 to *key*.
*
* Returns
*  Map value associated to *key*, or **NULL** if no entry was
*  found.
*/
static void *(* const bpf_map_lookup_elem)(void *map, const void *key) = (void *) 1;

/*
* bpf_map_update_elem
*
*  Add or update the value of the entry associated to *key* in
*  *map* with *value*. *flags* is one of:
*
*  **BPF_NOEXIST**
*   The entry for *key* must not exist in the map.
*  **BPF_EXIST**
*   The entry for *key* must already exist in the map.
*  **BPF_ANY**
*   No condition on the existence of the entry for *key*.
*
*  Flag value **BPF_NOEXIST** cannot be used for maps of types
*  **BPF_MAP_TYPE_ARRAY** or **BPF_MAP_TYPE_PERCPU_ARRAY**  (all
*  elements always exist), the helper would return an error.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_map_update_elem)(void *map, const void *key, const void *value, __u64 flags) = (void *)
2;

/*
* bpf_map_delete_elem
*
*  Delete entry with *key* from
 *map*.
*
```

```
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_map_delete_elem)(void *map, const void *key) = (void *) 3;

/*
* bpf_probe_read
*
*  For tracing programs, safely attempt to read *size* bytes from
*  kernel space address *unsafe_ptr* and store the data in *dst*.
*
*  Generally, use **bpf_probe_read_user**\ () or
*  **bpf_probe_read_kernel**\ () instead.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_probe_read)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 4;

/*
* bpf_ktime_get_ns
*
*  Return the time elapsed since system boot, in nanoseconds.
*  Does not include time the system was suspended.
*  See: **clock_gettime**\ (**CLOCK_MONOTONIC**)
*
* Returns
*  Current *ktime*.
*/
static __u64 (* const bpf_ktime_get_ns)(void) = (void *) 5;

/*
* bpf_trace_printk
*
*  This helper is a "printk()-like" facility for debugging. It
*  prints a message
 defined by format *fmt* (of size *fmt_size*)
*  to file *\/sys/kernel/tracing/trace* from TraceFS, if
*  available. It can take up to three additional **u64**
*  arguments (as an eBPF helpers, the total number of arguments is
*  limited to five).
*
*  Each time the helper is called, it appends a line to the trace.
*  Lines are discarded while *\/sys/kernel/tracing/trace* is
*  open, use *\/sys/kernel/tracing/trace_pipe* to avoid this.
*  The format of the trace is customizable, and the exact output
*  one will get depends on the options set in
*  *\/sys/kernel/tracing/trace_options* (see also the
```

```
*  *README* file under the same directory). However, it usually
*  defaults to something like:
*
*  ::
*
*   telnet-470   [001] .N.. 419421.045894: 0x00000001: <formatted msg>
*
*  In the above:
*
*   * ``telnet`` is the name of the current task.
*   * ``470`` is the PID of the current task.
*   * ``001`` is the CPU number on which the task is
*     running.
*   * In
 ``.N..``, each character refers to a set of
*     options (whether irqs are enabled, scheduling
*     options, whether hard/softirqs are running, level of
*     preempt_disabled respectively). **N** means that
*     **TIF_NEED_RESCHED** and **PREEMPT_NEED_RESCHED**
*     are set.
*   * ``419421.045894`` is a timestamp.
*   * ``0x00000001`` is a fake value used by BPF for the
*     instruction pointer register.
*   * ``<formatted msg>`` is the message formatted with
*     *fmt*.
*
*  The conversion specifiers supported by *fmt* are similar, but
*  more limited than for printk(). They are **%d**, **%i**,
*  **%u**, **%x**, **%ld**, **%li**, **%lu**, **%lx**, **%lld**,
*  **%lli**, **%llu**, **%llx**, **%p**, **%s**. No modifier (size
*  of field, padding with zeroes, etc.) is available, and the
*  helper will return **-EINVAL** (but print nothing) if it
*  encounters an unknown specifier.
*
*  Also, note that **bpf_trace_printk**\ () is slow, and should
*  only be used
 for debugging purposes. For this reason, a notice
*  block (spanning several lines) is printed to kernel logs and
*  states that the helper should not be used "for production use"
*  the first time this helper is used (or more precisely, when
*  **trace_printk**\ () buffers are allocated). For passing values
*  to user space, perf events should be preferred.
*
* Returns
*  The number of bytes written to the buffer, or a negative error
*  in case of failure.
*/
static long (* const bpf_trace_printk)(const char *fmt, __u32 fmt_size, ...) = (void *) 6;
```

```
/*
* bpf_get_prandom_u32
*
*  Get a pseudo-random number.
*
*  From a security point of view, this helper uses its own
*  pseudo-random internal state, and cannot be used to infer the
*  seed of other random functions in the kernel. However, it is
*  essential to note that the generator used by the helper is not
*  cryptographically secure.
*
* Returns
*  A random 32-bit unsigned value.
*/
static __u32 (* const bpf_get_prandom_u32)(void)
 = (void *) 7;

/*
* bpf_get_smp_processor_id
*
*  Get the SMP (symmetric multiprocessing) processor id. Note that
*  all programs run with migration disabled, which means that the
*  SMP processor id is stable during all the execution of the
*  program.
*
* Returns
*  The SMP id of the processor running the program.
*/
static __u32 (* const bpf_get_smp_processor_id)(void) = (void *) 8;

/*
* bpf_skb_store_bytes
*
*  Store *len* bytes from address *from* into the packet
*  associated to *skb*, at *offset*. *flags* are a combination of
*  **BPF_F_RECOMPUTE_CSUM** (automatically recompute the
*  checksum for the packet after storing the bytes) and
*  **BPF_F_INVALIDATE_HASH** (set *skb*\ **->hash**, *skb*\
*  **->swhash** and *skb*\ **->l4hash** to 0).
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must
 be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
```

```
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_store_bytes)(struct __sk_buff *skb, __u32 offset, const void *from, __u32 len, __u64
flags) = (void *) 9;

/*
* bpf_l3_csum_replace
*
*  Recompute the layer 3 (e.g. IP) checksum for the packet
*  associated to *skb*. Computation is incremental, so the helper
*  must know the former value of the header field that was
*  modified (*from*), the new value of this field (*to*), and the
*  number of bytes (2 or 4) for this field, stored in *size*.
*  Alternatively, it is possible to store the difference between
*  the previous and the new values of the header field in *to*, by
*  setting *from* and *size* to 0. For both methods, *offset*
*  indicates the location of the IP checksum within the packet.
*
*  This helper works in combination with **bpf_csum_diff**\ (),
*  which does not update
 the checksum in-place, but offers more
*  flexibility and can handle sizes larger than 2 or 4 for the
*  checksum to update.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_l3_csum_replace)(struct __sk_buff *skb, __u32 offset, __u64 from, __u64 to, __u64 size) =
(void *) 10;

/*
* bpf_l4_csum_replace
*
*  Recompute the layer 4 (e.g. TCP, UDP or ICMP) checksum for the
*  packet associated to *skb*. Computation is incremental, so the
*  helper must know the former value of the header field that was
*  modified (*from*), the new value of this field (*to*), and the
*  number of bytes (2 or 4) for this field, stored on the lowest
*  four bits
 of *flags*. Alternatively, it is possible to store
*  the difference between the previous and the new values of the
```

```
*  header field in *to*, by setting *from* and the four lowest
*  bits of *flags* to 0. For both methods, *offset* indicates the
*  location of the IP checksum within the packet. In addition to
*  the size of the field, *flags* can be added (bitwise OR) actual
*  flags. With **BPF_F_MARK_MANGLED_0**, a null checksum is left
*  untouched (unless **BPF_F_MARK_ENFORCE** is added as well), and
*  for updates resulting in a null checksum the value is set to
*  **CSUM_MANGLED_0** instead. Flag **BPF_F_PSEUDO_HDR** indicates
*  the checksum is to be computed against a pseudo-header.
*
*  This helper works in combination with **bpf_csum_diff**\ (),
*  which does not update the checksum in-place, but offers more
*  flexibility and can handle sizes larger than 2 or 4 for the
*  checksum to update.
*
*  A call to this helper is susceptible to change the underlying
 *  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_l4_csum_replace)(struct __sk_buff *skb, __u32 offset, __u64 from, __u64 to, __u64 flags)
= (void *) 11;

/*
* bpf_tail_call
*
*  This special helper is used to trigger a "tail call", or in
*  other words, to jump into another eBPF program. The same stack
*  frame is used (but values on stack and in registers for the
*  caller are not accessible to the callee). This mechanism allows
*  for program chaining, either for raising the maximum number of
*  available eBPF instructions, or to execute given programs in
*  conditional blocks. For security reasons, there is an upper
*  limit to the number of successive tail calls that can be
*  performed.
*
*  Upon call
 of this helper, the program attempts to jump into a
*  program referenced at index *index* in *prog_array_map*, a
*  special map of type **BPF_MAP_TYPE_PROG_ARRAY**, and passes
*  *ctx*, a pointer to the context.
*
*  If the call succeeds, the kernel immediately runs the first
*  instruction of the new program. This is not a function call,
```

```
*  and it never returns to the previous program. If the call
*  fails, then the helper has no effect, and the caller continues
*  to run its subsequent instructions. A call can fail if the
*  destination program for the jump does not exist (i.e. *index*
*  is superior to the number of entries in *prog_array_map*), or
*  if the maximum number of tail calls has been reached for this
*  chain of programs. This limit is defined in the kernel by the
*  macro **MAX_TAIL_CALL_CNT** (not accessible to user space),
*  which is currently set to 33.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const
 bpf_tail_call)(void *ctx, void *prog_array_map, __u32 index) = (void *) 12;

/*
* bpf_clone_redirect
*
*  Clone and redirect the packet associated to *skb* to another
*  net device of index *ifindex*. Both ingress and egress
*  interfaces can be used for redirection. The **BPF_F_INGRESS**
*  value in *flags* is used to make the distinction (ingress path
*  is selected if the flag is present, egress path otherwise).
*  This is the only flag supported for now.
*
*  In comparison with **bpf_redirect**\ () helper,
*  **bpf_clone_redirect**\ () has the associated cost of
*  duplicating the packet buffer, but this can be executed out of
*  the eBPF program. Conversely, **bpf_redirect**\ () is more
*  efficient, but it is handled through an action code where the
*  redirection happens only after the eBPF program has returned.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously
 done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure. Positive
*  error indicates a potential drop or congestion in the target
*  device. The particular positive error codes are not defined.
*/
static long (* const bpf_clone_redirect)(struct __sk_buff *skb, __u32 ifindex, __u64 flags) = (void *) 13;

/*
```

```
* bpf_get_current_pid_tgid
*
*  Get the current pid and tgid.
*
* Returns
*  A 64-bit integer containing the current tgid and pid, and
*  created as such:
*  *current_task*\ **->tgid << 32 \|**
*  *current_task*\ **->pid**.
*/
static __u64 (* const bpf_get_current_pid_tgid)(void) = (void *) 14;

/*
* bpf_get_current_uid_gid
*
*  Get the current uid and gid.
*
* Returns
*  A 64-bit integer containing the current GID and UID, and
*  created as such: *current_gid* **<< 32 \|** *current_uid*.
*/
static __u64 (* const
 bpf_get_current_uid_gid)(void) = (void *) 15;

/*
* bpf_get_current_comm
*
*  Copy the **comm** attribute of the current task into *buf* of
*  *size_of_buf*. The **comm** attribute contains the name of
*  the executable (excluding the path) for the current task. The
*  *size_of_buf* must be strictly positive. On success, the
*  helper makes sure that the *buf* is NUL-terminated. On failure,
*  it is filled with zeroes.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_get_current_comm)(void *buf, __u32 size_of_buf) = (void *) 16;

/*
* bpf_get_cgroup_classid
*
*  Retrieve the classid for the current task, i.e. for the net_cls
*  cgroup to which *skb* belongs.
*
*  This helper can be used on TC egress path, but not on ingress.
*
*  The net_cls cgroup provides an interface to tag network packets
```

```
*  based on a user-provided identifier for all traffic coming from
*  the tasks belonging to the related cgroup. See also the
 related
*  kernel documentation, available from the Linux sources in file
*  *Documentation/admin-guide/cgroup-v1/net_cls.rst*.
*
*  The Linux kernel has two versions for cgroups: there are
*  cgroups v1 and cgroups v2. Both are available to users, who can
*  use a mixture of them, but note that the net_cls cgroup is for
*  cgroup v1 only. This makes it incompatible with BPF programs
*  run on cgroups, which is a cgroup-v2-only feature (a socket can
*  only hold data for one version of cgroups at a time).
*
*  This helper is only available is the kernel was compiled with
*  the **CONFIG_CGROUP_NET_CLASSID** configuration option set to
*  "**y**" or to "**m**".
*
* Returns
*  The classid, or 0 for the default unconfigured classid.
*/
static __u32 (* const bpf_get_cgroup_classid)(struct __sk_buff *skb) = (void *) 17;

/*
* bpf_skb_vlan_push
*
*  Push a *vlan_tci* (VLAN tag control information) of protocol
*  *vlan_proto* to the packet associated to *skb*, then update
 *  the checksum. Note that if *vlan_proto* is different from
*  **ETH_P_8021Q** and **ETH_P_8021AD**, it is considered to
*  be **ETH_P_8021Q**.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_vlan_push)(struct __sk_buff *skb, __be16 vlan_proto, __u16 vlan_tci) = (void *) 18;

/*
* bpf_skb_vlan_pop
*
*  Pop a VLAN header from the packet associated to *skb*.
*
*  A call to this helper is susceptible to change the underlying
```

```
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
 *
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_vlan_pop)(struct __sk_buff *skb) = (void *) 19;

/*
* bpf_skb_get_tunnel_key
*
*  Get tunnel metadata. This helper takes a pointer *key* to an
*  empty **struct bpf_tunnel_key** of **size**, that will be
*  filled with tunnel metadata for the packet associated to *skb*.
*  The *flags* can be set to **BPF_F_TUNINFO_IPV6**, which
*  indicates that the tunnel is based on IPv6 protocol instead of
*  IPv4.
*
*  The **struct bpf_tunnel_key** is an object that generalizes the
*  principal parameters used by various tunneling protocols into a
*  single struct. This way, it can be used to easily make a
*  decision based on the contents of the encapsulation header,
*  "summarized" in this struct. In particular, it holds the IP
*  address of the remote end (IPv4 or IPv6, depending on the case)
*  in *key*\ **->remote_ipv4** or *key*\ **->remote_ipv6**. Also,
*  this struct
 exposes the *key*\ **->tunnel_id**, which is
*  generally mapped to a VNI (Virtual Network Identifier), making
*  it programmable together with the **bpf_skb_set_tunnel_key**\
*  () helper.
*
*  Let's imagine that the following code is part of a program
*  attached to the TC ingress interface, on one end of a GRE
*  tunnel, and is supposed to filter out all messages coming from
*  remote ends with IPv4 address other than 10.0.0.1:
*
*  ::
*
*   int ret;
*   struct bpf_tunnel_key key = {};
*
*   ret = bpf_skb_get_tunnel_key(skb, &key, sizeof(key), 0);
*   if (ret < 0)
*    return TC_ACT_SHOT; // drop packet
*
*   if (key.remote_ipv4 != 0x0a000001)
```

```
*    return TC_ACT_SHOT; // drop packet
*
*   return TC_ACT_OK;  // accept packet
*
*  This interface can also be used with all encapsulation devices
*  that can operate in "collect metadata" mode: instead of having
*  one network device per specific configuration, the "collect
*  metadata" mode only requires a single
 device where the
*  configuration can be extracted from this helper.
*
*  This can be used together with various tunnels such as VXLan,
*  Geneve, GRE or IP in IP (IPIP).
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_get_tunnel_key)(struct __sk_buff *skb, struct bpf_tunnel_key *key, __u32 size, __u64
flags) = (void *) 20;

/*
* bpf_skb_set_tunnel_key
*
*  Populate tunnel metadata for packet associated to *skb.* The
*  tunnel metadata is set to the contents of *key*, of *size*. The
*  *flags* can be set to a combination of the following values:
*
*  **BPF_F_TUNINFO_IPV6**
*   Indicate that the tunnel is based on IPv6 protocol
*   instead of IPv4.
*  **BPF_F_ZERO_CSUM_TX**
*   For IPv4 packets, add a flag to tunnel metadata
*   indicating that checksum computation should be skipped
*   and checksum set to zeroes.
*  **BPF_F_DONT_FRAGMENT**
*   Add a flag to tunnel metadata indicating that the
*   packet should
 not be fragmented.
*  **BPF_F_SEQ_NUMBER**
*   Add a flag to tunnel metadata indicating that a
*   sequence number should be added to tunnel header before
*   sending the packet. This flag was added for GRE
*   encapsulation, but might be used with other protocols
*   as well in the future.
*  **BPF_F_NO_TUNNEL_KEY**
*   Add a flag to tunnel metadata indicating that no tunnel
*   key should be set in the resulting tunnel header.
*
```

```
*  Here is a typical usage on the transmit path:
*
*  ::
*
*   struct bpf_tunnel_key key;
*        populate key ...
*   bpf_skb_set_tunnel_key(skb, &key, sizeof(key), 0);
*   bpf_clone_redirect(skb, vxlan_dev_ifindex, 0);
*
*  See also the description of the **bpf_skb_get_tunnel_key**\ ()
*  helper for additional information.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_set_tunnel_key)(struct __sk_buff *skb, struct bpf_tunnel_key *key, __u32 size, __u64
flags) = (void *) 21;

/*
 * bpf_perf_event_read
*
*  Read the value of a perf event counter. This helper relies on a
*  *map* of type **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. The nature of
*  the perf event counter is selected when *map* is updated with
*  perf event file descriptors. The *map* is an array whose size
*  is the number of available CPUs, and each cell contains a value
*  relative to one CPU. The value to retrieve is indicated by
*  *flags*, that contains the index of the CPU to look up, masked
*  with **BPF_F_INDEX_MASK**. Alternatively, *flags* can be set to
*  **BPF_F_CURRENT_CPU** to indicate that the value for the
*  current CPU should be retrieved.
*
*  Note that before Linux 4.13, only hardware perf event can be
*  retrieved.
*
*  Also, be aware that the newer helper
*  **bpf_perf_event_read_value**\ () is recommended over
*  **bpf_perf_event_read**\ () in general. The latter has some ABI
*  quirks where error and counter value are used as a return code
*  (which is wrong
 to do since ranges may overlap). This issue is
*  fixed with **bpf_perf_event_read_value**\ (), which at the same
*  time provides more features over the **bpf_perf_event_read**\
*  () interface. Please refer to the description of
*  **bpf_perf_event_read_value**\ () for details.
*
* Returns
*  The value of the perf event counter read from the map, or a
```

```
*  negative error code in case of failure.
*/
static __u64 (* const bpf_perf_event_read)(void *map, __u64 flags) = (void *) 22;

/*
* bpf_redirect
*
*  Redirect the packet to another net device of index *ifindex*.
*  This helper is somewhat similar to **bpf_clone_redirect**\
*  (), except that the packet is not cloned, which provides
*  increased performance.
*
*  Except for XDP, both ingress and egress interfaces can be used
*  for redirection. The **BPF_F_INGRESS** value in *flags* is used
*  to make the distinction (ingress path is selected if the flag
*  is present, egress path otherwise). Currently, XDP only
*
  supports redirection to the egress interface, and accepts no
*  flag at all.
*
*  The same effect can also be attained with the more generic
*  **bpf_redirect_map**\ (), which uses a BPF map to store the
*  redirect target instead of providing it directly to the helper.
*
* Returns
*  For XDP, the helper returns **XDP_REDIRECT** on success or
*  **XDP_ABORTED** on error. For other program types, the values
*  are **TC_ACT_REDIRECT** on success or **TC_ACT_SHOT** on
*  error.
*/
static long (* const bpf_redirect)(__u32 ifindex, __u64 flags) = (void *) 23;

/*
* bpf_get_route_realm
*
*  Retrieve the realm or the route, that is to say the
*  **tclassid** field of the destination for the *skb*. The
*  identifier retrieved is a user-provided tag, similar to the
*  one used with the net_cls cgroup (see description for
*  **bpf_get_cgroup_classid**\ () helper), but here this tag is
*  held by a route (a destination entry), not by a task.
*
*  Retrieving this identifier
 works with the clsact TC egress hook
*  (see also **tc-bpf(8)**), or alternatively on conventional
*  classful egress qdiscs, but not on TC ingress path. In case of
*  clsact TC egress hook, this has the advantage that, internally,
*  the destination entry has not been dropped yet in the transmit
```

```
*  path. Therefore, the destination entry does not need to be
*  artificially held via **netif_keep_dst**\ () for a classful
*  qdisc until the *skb* is freed.
*
*  This helper is available only if the kernel was compiled with
*  **CONFIG_IP_ROUTE_CLASSID** configuration option.
*
* Returns
*  The realm of the route for the packet associated to *skb*, or 0
*  if none was found.
*/
static __u32 (* const bpf_get_route_realm)(struct __sk_buff *skb) = (void *) 24;

/*
* bpf_perf_event_output
*
*  Write raw *data* blob into a special BPF perf event held by
*  *map* of type **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. This perf
*  event must have the following attributes: **PERF_SAMPLE_RAW**
*  as **sample_type**, **PERF_TYPE_SOFTWARE** as **type**, and
*  **PERF_COUNT_SW_BPF_OUTPUT** as **config**.
*
*  The *flags* are used to indicate the index in *map* for which
*  the value must be put, masked with **BPF_F_INDEX_MASK**.
*  Alternatively, *flags* can be set to **BPF_F_CURRENT_CPU**
*  to indicate that the index of the current CPU core should be
*  used.
*
*  The value to write, of *size*, is passed through eBPF stack and
*  pointed by *data*.
*
*  The context of the program *ctx* needs also be passed to the
*  helper.
*
*  On user space, a program willing to read the values needs to
*  call **perf_event_open**\ () on the perf event (either for
*  one or for all CPUs) and to store the file descriptor into the
*  *map*. This must be done before the eBPF program can send data
*  into it. An example is available in file
*  *samples/bpf/trace_output_user.c* in the Linux kernel source
*  tree (the eBPF program counterpart is in
*  *samples/bpf/trace_output_kern.c*).
*
*  **bpf_perf_event_output**\ () achieves better performance
*  than **bpf_trace_printk**\ () for sharing data with user
*  space, and is much better suitable for streaming data from eBPF
*  programs.
*
```

```
*  Note that this helper is not restricted to tracing use cases
*  and can be used with programs attached to TC or XDP as well,
*  where it allows for passing data to user space listeners. Data
*  can be:
*
*  * Only custom structs,
*  * Only the packet payload, or
*  * A combination of both.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_perf_event_output)(void *ctx, void *map, __u64 flags, void *data, __u64 size) = (void *)
25;

/*
* bpf_skb_load_bytes
*
*  This helper was provided as an easy way to load data from a
*  packet. It can be used to load *len* bytes from *offset* from
*  the packet associated to *skb*, into the buffer pointed by
*  *to*.
*
*  Since Linux 4.7, usage of this helper
 has mostly been replaced
*  by "direct packet access", enabling packet data to be
*  manipulated with *skb*\ **->data** and *skb*\ **->data_end**
*  pointing respectively to the first byte of packet data and to
*  the byte after the last byte of packet data. However, it
*  remains useful if one wishes to read large quantities of data
*  at once from a packet into the eBPF stack.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_load_bytes)(const void *skb, __u32 offset, void *to, __u32 len) = (void *) 26;

/*
* bpf_get_stackid
*
*  Walk a user or a kernel stack and return its id. To achieve
*  this, the helper needs *ctx*, which is a pointer to the context
*  on which the tracing program is executed, and a pointer to a
*  *map* of type **BPF_MAP_TYPE_STACK_TRACE**.
*
*  The last argument, *flags*, holds the number of stack frames to
*  skip (from 0 to 255), masked with
*  **BPF_F_SKIP_FIELD_MASK**. The next bits can
```

```
 be used to set
*  a combination of the following flags:
*
*  **BPF_F_USER_STACK**
*   Collect a user space stack instead of a kernel stack.
*  **BPF_F_FAST_STACK_CMP**
*   Compare stacks by hash only.
*  **BPF_F_REUSE_STACKID**
*   If two different stacks hash into the same *stackid*,
*   discard the old one.
*
*  The stack id retrieved is a 32 bit long integer handle which
*  can be further combined with other data (including other stack
*  ids) and used as a key into maps. This can be useful for
*  generating a variety of graphs (such as flame graphs or off-cpu
*  graphs).
*
*  For walking a stack, this helper is an improvement over
*  **bpf_probe_read**\ (), which can be used with unrolled loops
*  but is not efficient and consumes a lot of eBPF instructions.
*  Instead, **bpf_get_stackid**\ () can collect up to
*  **PERF_MAX_STACK_DEPTH** both kernel and user frames. Note that
*  this limit can be controlled with the **sysctl** program, and
*  that it should
 be manually increased in order to profile long
*  user stacks (such as stacks for Java programs). To do so, use:
*
*  ::
*
*   # sysctl kernel.perf_event_max_stack=<new value>
*
* Returns
*  The positive or null stack id on success, or a negative error
*  in case of failure.
*/
static long (* const bpf_get_stackid)(void *ctx, void *map, __u64 flags) = (void *) 27;

/*
* bpf_csum_diff
*
*  Compute a checksum difference, from the raw buffer pointed by
*  *from*, of length *from_size* (that must be a multiple of 4),
*  towards the raw buffer pointed by *to*, of size *to_size*
*  (same remark). An optional *seed* can be added to the value
*  (this can be cascaded, the seed may come from a previous call
*  to the helper).
*
*  This is flexible enough to be used in several ways:
```

```
*
*  * With *from_size* == 0, *to_size* > 0 and *seed* set to
*    checksum, it can be used when pushing new data.
*  * With *from_size* > 0, *to_size* == 0 and *seed* set to
*    checksum,
 it can be used when removing data from a packet.
*  * With *from_size* > 0, *to_size* > 0 and *seed* set to 0, it
*    can be used to compute a diff. Note that *from_size* and
*    *to_size* do not need to be equal.
*
*  This helper can be used in combination with
*  **bpf_l3_csum_replace**\ () and **bpf_l4_csum_replace**\ (), to
*  which one can feed in the difference computed with
*  **bpf_csum_diff**\ ().
*
* Returns
*  The checksum result, or a negative error code in case of
*  failure.
*/
static __s64 (* const bpf_csum_diff)(__be32 *from, __u32 from_size, __be32 *to, __u32 to_size, __wsum seed) =
(void *) 28;

/*
* bpf_skb_get_tunnel_opt
*
*  Retrieve tunnel options metadata for the packet associated to
*  *skb*, and store the raw tunnel option data to the buffer *opt*
*  of *size*.
*
*  This helper can be used with encapsulation devices that can
*  operate in "collect metadata" mode (please refer to the related
*  note in the description of **bpf_skb_get_tunnel_key**\
 () for
*  more details). A particular example where this can be used is
*  in combination with the Geneve encapsulation protocol, where it
*  allows for pushing (with **bpf_skb_get_tunnel_opt**\ () helper)
*  and retrieving arbitrary TLVs (Type-Length-Value headers) from
*  the eBPF program. This allows for full customization of these
*  headers.
*
* Returns
*  The size of the option data retrieved.
*/
static long (* const bpf_skb_get_tunnel_opt)(struct __sk_buff *skb, void *opt, __u32 size) = (void *) 29;

/*
* bpf_skb_set_tunnel_opt
*
```

```
*  Set tunnel options metadata for the packet associated to *skb*
*  to the option data contained in the raw buffer *opt* of *size*.
*
*  See also the description of the **bpf_skb_get_tunnel_opt**\ ()
*  helper for additional information.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_set_tunnel_opt)(struct __sk_buff *skb, void *opt, __u32 size) = (void *) 30;

/*
*
 bpf_skb_change_proto
*
*  Change the protocol of the *skb* to *proto*. Currently
*  supported are transition from IPv4 to IPv6, and from IPv6 to
*  IPv4. The helper takes care of the groundwork for the
*  transition, including resizing the socket buffer. The eBPF
*  program is expected to fill the new headers, if any, via
*  **skb_store_bytes**\ () and to recompute the checksums with
*  **bpf_l3_csum_replace**\ () and **bpf_l4_csum_replace**\
*  (). The main case for this helper is to perform NAT64
*  operations out of an eBPF program.
*
*  Internally, the GSO type is marked as dodgy so that headers are
*  checked and segments are recalculated by the GSO/GRO engine.
*  The size for GSO target is adapted as well.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are
 invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_change_proto)(struct __sk_buff *skb, __be16 proto, __u64 flags) = (void *) 31;

/*
* bpf_skb_change_type
*
*  Change the packet type for the packet associated to *skb*. This
```

```
*  comes down to setting *skb*\ **->pkt_type** to *type*, except
*  the eBPF program does not have a write access to *skb*\
*  **->pkt_type** beside this helper. Using a helper here allows
*  for graceful handling of errors.
*
*  The major use case is to change incoming *skb*s to
*  **PACKET_HOST** in a programmatic way instead of having to
*  recirculate via **redirect**\ (..., **BPF_F_INGRESS**), for
*  example.
*
*  Note that *type* only allows certain values. At this time, they
*  are:
*
*  **PACKET_HOST**
*   Packet is for us.
*  **PACKET_BROADCAST**
*   Send packet to all.
 *  **PACKET_MULTICAST**
*   Send packet to group.
*  **PACKET_OTHERHOST**
*   Send packet to someone else.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_change_type)(struct __sk_buff *skb, __u32 type) = (void *) 32;

/*
* bpf_skb_under_cgroup
*
*  Check whether *skb* is a descendant of the cgroup2 held by
*  *map* of type **BPF_MAP_TYPE_CGROUP_ARRAY**, at *index*.
*
* Returns
*  The return value depends on the result of the test, and can be:
*
*  * 0, if the *skb* failed the cgroup2 descendant test.
*  * 1, if the *skb* succeeded the cgroup2 descendant test.
*  * A negative error code, if an error occurred.
*/
static long (* const bpf_skb_under_cgroup)(struct __sk_buff *skb, void *map, __u32 index) = (void *) 33;

/*
* bpf_get_hash_recalc
*
*  Retrieve the hash of the packet, *skb*\ **->hash**. If it is
*  not set, in particular if the hash was cleared due to mangling,
*  recompute this hash. Later accesses
```

```
 to the hash can be done
*  directly with *skb*\ **->hash**.
*
*  Calling **bpf_set_hash_invalid**\ (), changing a packet
*  prototype with **bpf_skb_change_proto**\ (), or calling
*  **bpf_skb_store_bytes**\ () with the
*  **BPF_F_INVALIDATE_HASH** are actions susceptible to clear
*  the hash and to trigger a new computation for the next call to
*  **bpf_get_hash_recalc**\ ().
*
* Returns
*  The 32-bit hash.
*/
static __u32 (* const bpf_get_hash_recalc)(struct __sk_buff *skb) = (void *) 34;

/*
* bpf_get_current_task
*
*  Get the current task.
*
* Returns
*  A pointer to the current task struct.
*/
static __u64 (* const bpf_get_current_task)(void) = (void *) 35;

/*
* bpf_probe_write_user
*
*  Attempt in a safe way to write *len* bytes from the buffer
*  *src* to *dst* in memory. It only works for threads that are in
*  user context, and *dst* must be a valid user space address.
*
*  This helper should not be used to implement any kind of
*  security mechanism
 because of TOC-TOU attacks, but rather to
*  debug, divert, and manipulate execution of semi-cooperative
*  processes.
*
*  Keep in mind that this feature is meant for experiments, and it
*  has a risk of crashing the system and running programs.
*  Therefore, when an eBPF program using this helper is attached,
*  a warning including PID and process name is printed to kernel
*  logs.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_probe_write_user)(void *dst, const void *src, __u32 len) = (void *) 36;
```

```
/*
* bpf_current_task_under_cgroup
*
*  Check whether the probe is being run is the context of a given
*  subset of the cgroup2 hierarchy. The cgroup2 to test is held by
*  *map* of type **BPF_MAP_TYPE_CGROUP_ARRAY**, at *index*.
*
* Returns
*  The return value depends on the result of the test, and can be:
*
*  * 1, if current task belongs to the cgroup2.
*  * 0, if current task does not belong to the cgroup2.
 *  * A negative error code, if an error occurred.
*/
static long (* const bpf_current_task_under_cgroup)(void *map, __u32 index) = (void *) 37;

/*
* bpf_skb_change_tail
*
*  Resize (trim or grow) the packet associated to *skb* to the
*  new *len*. The *flags* are reserved for future usage, and must
*  be left at zero.
*
*  The basic idea is that the helper performs the needed work to
*  change the size of the packet, then the eBPF program rewrites
*  the rest via helpers like **bpf_skb_store_bytes**\ (),
*  **bpf_l3_csum_replace**\ (), **bpf_l3_csum_replace**\ ()
*  and others. This helper is a slow path utility intended for
*  replies with control messages. And because it is targeted for
*  slow path, the helper itself can afford to be slow: it
*  implicitly linearizes, unclones and drops offloads from the
*  *skb*.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done
 by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_change_tail)(struct __sk_buff *skb, __u32 len, __u64 flags) = (void *) 38;

/*
* bpf_skb_pull_data
```

```
*
*  Pull in non-linear data in case the *skb* is non-linear and not
*  all of *len* are part of the linear section. Make *len* bytes
*  from *skb* readable and writable. If a zero value is passed for
*  *len*, then all bytes in the linear part of *skb* will be made
*  readable and writable.
*
*  This helper is only needed for reading and writing with direct
*  packet access.
*
*  For direct packet access, testing that offsets to access
*  are within packet boundaries (test on *skb*\ **->data_end**) is
*  susceptible to fail if offsets are invalid, or if the requested
*  data is in non-linear parts of the *skb*. On failure the
*  program
 can just bail out, or in the case of a non-linear
*  buffer, use a helper to make the data available. The
*  **bpf_skb_load_bytes**\ () helper is a first solution to access
*  the data. Another one consists in using **bpf_skb_pull_data**
*  to pull in once the non-linear parts, then retesting and
*  eventually access the data.
*
*  At the same time, this also makes sure the *skb* is uncloned,
*  which is a necessary condition for direct write. As this needs
*  to be an invariant for the write part only, the verifier
*  detects writes and adds a prologue that is calling
*  **bpf_skb_pull_data()** to effectively unclone the *skb* from
*  the very beginning in case it is indeed cloned.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
*
 Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_pull_data)(struct __sk_buff *skb, __u32 len) = (void *) 39;

/*
* bpf_csum_update
*
*  Add the checksum *csum* into *skb*\ **->csum** in case the
*  driver has supplied a checksum for the entire packet into that
*  field. Return an error otherwise. This helper is intended to be
*  used in combination with **bpf_csum_diff**\ (), in particular
```

```
*  when the checksum needs to be updated after data has been
*  written into the packet through direct packet access.
*
* Returns
*  The checksum on success, or a negative error code in case of
*  failure.
*/
static __s64 (* const bpf_csum_update)(struct __sk_buff *skb, __wsum csum) = (void *) 40;

/*
* bpf_set_hash_invalid
*
*  Invalidate the current *skb*\ **->hash**. It can be used after
*  mangling on headers through direct packet access, in order to
*  indicate that the hash is outdated and to trigger a
*  recalculation the next
 time the kernel tries to access this
*  hash or when the **bpf_get_hash_recalc**\ () helper is called.
*
* Returns
*  void.
*/
static void (* const bpf_set_hash_invalid)(struct __sk_buff *skb) = (void *) 41;

/*
* bpf_get_numa_node_id
*
*  Return the id of the current NUMA node. The primary use case
*  for this helper is the selection of sockets for the local NUMA
*  node, when the program is attached to sockets using the
*  **SO_ATTACH_REUSEPORT_EBPF** option (see also **socket(7)**),
*  but the helper is also available to other eBPF program types,
*  similarly to **bpf_get_smp_processor_id**\ ().
*
* Returns
*  The id of current NUMA node.
*/
static long (* const bpf_get_numa_node_id)(void) = (void *) 42;

/*
* bpf_skb_change_head
*
*  Grows headroom of packet associated to *skb* and adjusts the
*  offset of the MAC header accordingly, adding *len* bytes of
*  space. It automatically extends and reallocates memory as
*  required.
*
*  This helper can be used
```

```
 on a layer 3 *skb* to push a MAC header
*  for redirection into a layer 2 device.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_change_head)(struct __sk_buff *skb, __u32 len, __u64 flags) = (void *) 43;

/*
* bpf_xdp_adjust_head
*
*  Adjust (move) *xdp_md*\ **->data** by *delta* bytes. Note that
*  it is possible to use a negative value for *delta*. This helper
*  can be used to prepare the packet for pushing or popping
*  headers.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all
 checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_adjust_head)(struct xdp_md *xdp_md, int delta) = (void *) 44;

/*
* bpf_probe_read_str
*
*  Copy a NUL terminated string from an unsafe kernel address
*  *unsafe_ptr* to *dst*. See **bpf_probe_read_kernel_str**\ () for
*  more details.
*
*  Generally, use **bpf_probe_read_user_str**\ () or
*  **bpf_probe_read_kernel_str**\ () instead.
*
* Returns
```

```
*  On success, the strictly positive length of the string,
*  including the trailing NUL character. On error, a negative
*  value.
*/
static long (* const bpf_probe_read_str)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 45;

/*
* bpf_get_socket_cookie
*
*  If the **struct sk_buff** pointed by *skb* has a known socket,
*  retrieve the cookie
 (generated by the kernel) of this socket.
*  If no cookie has been set yet, generate a new cookie. Once
*  generated, the socket cookie remains stable for the life of the
*  socket. This helper can be useful for monitoring per socket
*  networking traffic statistics as it provides a global socket
*  identifier that can be assumed unique.
*
* Returns
*  A 8-byte long unique number on success, or 0 if the socket
*  field is missing inside *skb*.
*/
static __u64 (* const bpf_get_socket_cookie)(void *ctx) = (void *) 46;

/*
* bpf_get_socket_uid
*
*  Get the owner UID of the socked associated to *skb*.
*
* Returns
*  The owner UID of the socket associated to *skb*. If the socket
*  is **NULL**, or if it is not a full socket (i.e. if it is a
*  time-wait or a request socket instead), **overflowuid** value
*  is returned (note that **overflowuid** might also be the actual
*  UID value for the socket).
*/
static __u32 (* const bpf_get_socket_uid)(struct __sk_buff *skb) =
 (void *) 47;

/*
* bpf_set_hash
*
*  Set the full hash for *skb* (set the field *skb*\ **->hash**)
*  to value *hash*.
*
* Returns
*  0
*/
```

```
static long (* const bpf_set_hash)(struct __sk_buff *skb, __u32 hash) = (void *) 48;

/*
* bpf_setsockopt
*
*  Emulate a call to **setsockopt()** on the socket associated to
*  *bpf_socket*, which must be a full socket. The *level* at
*  which the option resides and the name *optname* of the option
*  must be specified, see **setsockopt(2)** for more information.
*  The option value of length *optlen* is pointed by *optval*.
*
*  *bpf_socket* should be one of the following:
*
*  * **struct bpf_sock_ops** for **BPF_PROG_TYPE_SOCK_OPS**.
*  * **struct bpf_sock_addr** for **BPF_CGROUP_INET4_CONNECT**,
*    **BPF_CGROUP_INET6_CONNECT** and **BPF_CGROUP_UNIX_CONNECT**.
*
*  This helper actually implements a subset of **setsockopt()**.
*  It supports the following *level*\ s:
*
*  * **SOL_SOCKET**, which supports the following *optname*\
 s:
*    **SO_RCVBUF**, **SO_SNDBUF**, **SO_MAX_PACING_RATE**,
*    **SO_PRIORITY**, **SO_RCVLOWAT**, **SO_MARK**,
*    **SO_BINDTODEVICE**, **SO_KEEPALIVE**, **SO_REUSEADDR**,
*    **SO_REUSEPORT**, **SO_BINDTOIFINDEX**, **SO_TXREHASH**.
*  * **IPPROTO_TCP**, which supports the following *optname*\ s:
*    **TCP_CONGESTION**, **TCP_BPF_IW**,
*    **TCP_BPF_SNDCWND_CLAMP**, **TCP_SAVE_SYN**,
*    **TCP_KEEPIDLE**, **TCP_KEEPINTVL**, **TCP_KEEPCNT**,
*    **TCP_SYNCNT**, **TCP_USER_TIMEOUT**, **TCP_NOTSENT_LOWAT**,
*    **TCP_NODELAY**, **TCP_MAXSEG**, **TCP_WINDOW_CLAMP**,
*    **TCP_THIN_LINEAR_TIMEOUTS**, **TCP_BPF_DELACK_MAX**,
*    **TCP_BPF_RTO_MIN**.
*  * **IPPROTO_IP**, which supports *optname* **IP_TOS**.
*  * **IPPROTO_IPV6**, which supports the following *optname*\ s:
*    **IPV6_TCLASS**, **IPV6_AUTOFLOWLABEL**.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_setsockopt)(void *bpf_socket, int level,
 int optname, void *optval, int optlen) = (void *) 49;

/*
* bpf_skb_adjust_room
*
*  Grow or shrink the room for data in the packet associated to
```

```
*  *skb* by *len_diff*, and according to the selected *mode*.
*
*  By default, the helper will reset any offloaded checksum
*  indicator of the skb to CHECKSUM_NONE. This can be avoided
*  by the following flag:
*
*  * **BPF_F_ADJ_ROOM_NO_CSUM_RESET**: Do not reset offloaded
*    checksum data of the skb to CHECKSUM_NONE.
*
*  There are two supported modes at this time:
*
*  * **BPF_ADJ_ROOM_MAC**: Adjust room at the mac layer
*    (room space is added or removed between the layer 2 and
*    layer 3 headers).
*
*  * **BPF_ADJ_ROOM_NET**: Adjust room at the network layer
*    (room space is added or removed between the layer 3 and
*    layer 4 headers).
*
*  The following flags are supported at this time:
*
*  * **BPF_F_ADJ_ROOM_FIXED_GSO**: Do not adjust gso_size.
*    Adjusting mss in this way is not allowed for datagrams.
 *
*  * **BPF_F_ADJ_ROOM_ENCAP_L3_IPV4**,
*    **BPF_F_ADJ_ROOM_ENCAP_L3_IPV6**:
*    Any new space is reserved to hold a tunnel header.
*    Configure skb offsets and other fields accordingly.
*
*  * **BPF_F_ADJ_ROOM_ENCAP_L4_GRE**,
*    **BPF_F_ADJ_ROOM_ENCAP_L4_UDP**:
*    Use with ENCAP_L3 flags to further specify the tunnel type.
*
*  * **BPF_F_ADJ_ROOM_ENCAP_L2**\ (*len*):
*    Use with ENCAP_L3/L4 flags to further specify the tunnel
*    type; *len* is the length of the inner MAC header.
*
*  * **BPF_F_ADJ_ROOM_ENCAP_L2_ETH**:
*    Use with BPF_F_ADJ_ROOM_ENCAP_L2 flag to further specify the
*    L2 type as Ethernet.
*
*  * **BPF_F_ADJ_ROOM_DECAP_L3_IPV4**,
*    **BPF_F_ADJ_ROOM_DECAP_L3_IPV6**:
*    Indicate the new IP header version after decapsulating the outer
*    IP header. Used when the inner and outer IP versions are different.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all
```

```
 checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_adjust_room)(struct __sk_buff *skb, __s32 len_diff, __u32 mode, __u64 flags) = (void
*) 50;

/*
* bpf_redirect_map
*
*  Redirect the packet to the endpoint referenced by *map* at
*  index *key*. Depending on its type, this *map* can contain
*  references to net devices (for forwarding packets through other
*  ports), or to CPUs (for redirecting XDP frames to another CPU;
*  but this is only implemented for native XDP (with driver
*  support) as of this writing).
*
*  The lower two bits of *flags* are used as the return code if
*  the map lookup fails. This is so that the return value can be
*  one of the XDP program return codes up to **XDP_TX**, as chosen
*  by the caller. The higher bits of *flags*
 can be set to
*  BPF_F_BROADCAST or BPF_F_EXCLUDE_INGRESS as defined below.
*
*  With BPF_F_BROADCAST the packet will be broadcasted to all the
*  interfaces in the map, with BPF_F_EXCLUDE_INGRESS the ingress
*  interface will be excluded when do broadcasting.
*
*  See also **bpf_redirect**\ (), which only supports redirecting
*  to an ifindex, but doesn't require a map to do so.
*
* Returns
*  **XDP_REDIRECT** on success, or the value of the two lower bits
*  of the *flags* argument on error.
*/
static long (* const bpf_redirect_map)(void *map, __u64 key, __u64 flags) = (void *) 51;

/*
* bpf_sk_redirect_map
*
*  Redirect the packet to the socket referenced by *map* (of type
*  **BPF_MAP_TYPE_SOCKMAP**) at index *key*. Both ingress and
*  egress interfaces can be used for redirection. The
*  **BPF_F_INGRESS** value in *flags* is used to make the
```

```
*  distinction (ingress path is selected if the flag is present,
*  egress path otherwise). This is the only flag supported
 for now.
*
* Returns
*  **SK_PASS** on success, or **SK_DROP** on error.
*/
static long (* const bpf_sk_redirect_map)(struct __sk_buff *skb, void *map, __u32 key, __u64 flags) = (void *) 52;

/*
* bpf_sock_map_update
*
*  Add an entry to, or update a *map* referencing sockets. The
*  *skops* is used as a new value for the entry associated to
*  *key*. *flags* is one of:
*
*  **BPF_NOEXIST**
*   The entry for *key* must not exist in the map.
*  **BPF_EXIST**
*   The entry for *key* must already exist in the map.
*  **BPF_ANY**
*   No condition on the existence of the entry for *key*.
*
*  If the *map* has eBPF programs (parser and verdict), those will
*  be inherited by the socket being added. If the socket is
*  already attached to eBPF programs, this results in an error.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_sock_map_update)(struct bpf_sock_ops *skops, void *map, void *key, __u64 flags) = (void
*)
 53;

/*
* bpf_xdp_adjust_meta
*
*  Adjust the address pointed by *xdp_md*\ **->data_meta** by
*  *delta* (which can be positive or negative). Note that this
*  operation modifies the address stored in *xdp_md*\ **->data**,
*  so the latter must be loaded only after the helper has been
*  called.
*
*  The use of *xdp_md*\ **->data_meta** is optional and programs
*  are not required to use it. The rationale is that when the
*  packet is processed with XDP (e.g. as DoS filter), it is
*  possible to push further meta data along with it before passing
*  to the stack, and to give the guarantee that an ingress eBPF
```

```
*  program attached as a TC classifier on the same device can pick
*  this up for further post-processing. Since TC works with socket
*  buffers, it remains possible to set from XDP the **mark** or
*  **priority** pointers, or other pointers for the socket buffer.
*  Having this scratch space generic and programmable allows for
*  more flexibility as the user is
 free to store whatever meta
*  data they need.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_adjust_meta)(struct xdp_md *xdp_md, int delta) = (void *) 54;

/*
* bpf_perf_event_read_value
*
*  Read the value of a perf event counter, and store it into *buf*
*  of size *buf_size*. This helper relies on a *map* of type
*  **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. The nature of the perf event
*  counter is selected when *map* is updated with perf event file
*  descriptors. The *map* is an array whose size is the number of
*  available CPUs, and each cell contains a value relative to one
*  CPU. The value to retrieve is indicated by *flags*, that
 *  contains the index of the CPU to look up, masked with
*  **BPF_F_INDEX_MASK**. Alternatively, *flags* can be set to
*  **BPF_F_CURRENT_CPU** to indicate that the value for the
*  current CPU should be retrieved.
*
*  This helper behaves in a way close to
*  **bpf_perf_event_read**\ () helper, save that instead of
*  just returning the value observed, it fills the *buf*
*  structure. This allows for additional data to be retrieved: in
*  particular, the enabled and running times (in *buf*\
*  **->enabled** and *buf*\ **->running**, respectively) are
*  copied. In general, **bpf_perf_event_read_value**\ () is
*  recommended over **bpf_perf_event_read**\ (), which has some
*  ABI issues and provides fewer functionalities.
*
*  These values are interesting, because hardware PMU (Performance
*  Monitoring Unit) counters are limited resources. When there are
*  more PMU based perf events opened than available counters,
```

```
*  kernel will multiplex these events so each event
 gets certain
*  percentage (but not all) of the PMU time. In case that
*  multiplexing happens, the number of samples or counter value
*  will not reflect the case compared to when no multiplexing
*  occurs. This makes comparison between different runs difficult.
*  Typically, the counter value should be normalized before
*  comparing to other experiments. The usual normalization is done
*  as follows.
*
*  ::
*
*   normalized_counter = counter * t_enabled / t_running
*
*  Where t_enabled is the time enabled for event and t_running is
*  the time running for event since last normalization. The
*  enabled and running times are accumulated since the perf event
*  open. To achieve scaling factor between two invocations of an
*  eBPF program, users can use CPU id as the key (which is
*  typical for perf array usage model) to remember the previous
*  value and do the calculation inside the eBPF program.
*
* Returns
*  0 on success, or a negative error in case of failure.
 */
static long (* const bpf_perf_event_read_value)(void *map, __u64 flags, struct bpf_perf_event_value *buf, __u32
buf_size) = (void *) 55;

/*
* bpf_perf_prog_read_value
*
*  For an eBPF program attached to a perf event, retrieve the
*  value of the event counter associated to *ctx* and store it in
*  the structure pointed by *buf* and of size *buf_size*. Enabled
*  and running times are also stored in the structure (see
*  description of helper **bpf_perf_event_read_value**\ () for
*  more details).
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_perf_prog_read_value)(struct bpf_perf_event_data *ctx, struct bpf_perf_event_value *buf,
__u32 buf_size) = (void *) 56;

/*
* bpf_getsockopt
*
*  Emulate a call to **getsockopt()** on the socket associated to
```

```
*  *bpf_socket*, which must be a full socket. The *level* at
*  which the option resides and the name *optname* of the option
*  must be specified, see **getsockopt(2)**
 for more information.
*  The retrieved value is stored in the structure pointed by
*  *opval* and of length *optlen*.
*
*  *bpf_socket* should be one of the following:
*
*  * **struct bpf_sock_ops** for **BPF_PROG_TYPE_SOCK_OPS**.
*  * **struct bpf_sock_addr** for **BPF_CGROUP_INET4_CONNECT**,
*    **BPF_CGROUP_INET6_CONNECT** and **BPF_CGROUP_UNIX_CONNECT**.
*
*  This helper actually implements a subset of **getsockopt()**.
*  It supports the same set of *optname*\ s that is supported by
*  the **bpf_setsockopt**\ () helper.  The exceptions are
*  **TCP_BPF_*** is **bpf_setsockopt**\ () only and
*  **TCP_SAVED_SYN** is **bpf_getsockopt**\ () only.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_getsockopt)(void *bpf_socket, int level, int optname, void *optval, int optlen) = (void *) 57;

/*
* bpf_override_return
*
*  Used for error injection, this helper uses kprobes to override
*  the return value of the probed
 function, and to set it to *rc*.
*  The first argument is the context *regs* on which the kprobe
*  works.
*
*  This helper works by setting the PC (program counter)
*  to an override function which is run in place of the original
*  probed function. This means the probed function is not run at
*  all. The replacement function just returns with the required
*  value.
*
*  This helper has security implications, and thus is subject to
*  restrictions. It is only available if the kernel was compiled
*  with the **CONFIG_BPF_KPROBE_OVERRIDE** configuration
*  option, and in this case it only works on functions tagged with
*  **ALLOW_ERROR_INJECTION** in the kernel code.
*
*  Also, the helper is only available for the architectures having
*  the CONFIG_FUNCTION_ERROR_INJECTION option. As of this writing,
*  x86 architecture is the only one to support this feature.
```

```
*
* Returns
*  0
*/
static long (* const bpf_override_return)(struct pt_regs *regs, __u64 rc) = (void
 *) 58;

/*
* bpf_sock_ops_cb_flags_set
*
*  Attempt to set the value of the **bpf_sock_ops_cb_flags** field
*  for the full TCP socket associated to *bpf_sock_ops* to
*  *argval*.
*
*  The primary use of this field is to determine if there should
*  be calls to eBPF programs of type
*  **BPF_PROG_TYPE_SOCK_OPS** at various points in the TCP
*  code. A program of the same type can change its value, per
*  connection and as necessary, when the connection is
*  established. This field is directly accessible for reading, but
*  this helper must be used for updates in order to return an
*  error if an eBPF program tries to set a callback that is not
*  supported in the current kernel.
*
*  *argval* is a flag array which can combine these flags:
*
*  * **BPF_SOCK_OPS_RTO_CB_FLAG** (retransmission time out)
*  * **BPF_SOCK_OPS_RETRANS_CB_FLAG** (retransmission)
*  * **BPF_SOCK_OPS_STATE_CB_FLAG** (TCP state change)
*  * **BPF_SOCK_OPS_RTT_CB_FLAG** (every RTT)
*
*  Therefore,
 this function can be used to clear a callback flag by
*  setting the appropriate bit to zero. e.g. to disable the RTO
*  callback:
*
*  **bpf_sock_ops_cb_flags_set(bpf_sock,**
*   **bpf_sock->bpf_sock_ops_cb_flags & ~BPF_SOCK_OPS_RTO_CB_FLAG)**
*
*  Here are some examples of where one could call such eBPF
*  program:
*
*  * When RTO fires.
*  * When a packet is retransmitted.
*  * When the connection terminates.
*  * When a packet is sent.
*  * When a packet is received.
*
```

```
* Returns
*  Code **-EINVAL** if the socket is not a full TCP socket;
*  otherwise, a positive number containing the bits that could not
*  be set is returned (which comes down to 0 if all bits were set
*  as required).
*/
static long (* const bpf_sock_ops_cb_flags_set)(struct bpf_sock_ops *bpf_sock, int argval) = (void *) 59;

/*
* bpf_msg_redirect_map
*
*  This helper is used in programs implementing policies at the
*  socket level. If the message *msg* is allowed to pass (i.e. if
 *  the verdict eBPF program returns **SK_PASS**), redirect it to
*  the socket referenced by *map* (of type
*  **BPF_MAP_TYPE_SOCKMAP**) at index *key*. Both ingress and
*  egress interfaces can be used for redirection. The
*  **BPF_F_INGRESS** value in *flags* is used to make the
*  distinction (ingress path is selected if the flag is present,
*  egress path otherwise). This is the only flag supported for now.
*
* Returns
*  **SK_PASS** on success, or **SK_DROP** on error.
*/
static long (* const bpf_msg_redirect_map)(struct sk_msg_md *msg, void *map, __u32 key, __u64 flags) = (void *)
60;

/*
* bpf_msg_apply_bytes
*
*  For socket policies, apply the verdict of the eBPF program to
*  the next *bytes* (number of bytes) of message *msg*.
*
*  For example, this helper can be used in the following cases:
*
*  * A single **sendmsg**\ () or **sendfile**\ () system call
*    contains multiple logical messages that the eBPF program is
*    supposed to read and for which
 it should apply a verdict.
*  * An eBPF program only cares to read the first *bytes* of a
*    *msg*. If the message has a large payload, then setting up
*    and calling the eBPF program repeatedly for all bytes, even
*    though the verdict is already known, would create unnecessary
*    overhead.
*
*  When called from within an eBPF program, the helper sets a
*  counter internal to the BPF infrastructure, that is used to
*  apply the last verdict to the next *bytes*. If *bytes* is
```

```
*  smaller than the current data being processed from a
*  **sendmsg**\ () or **sendfile**\ () system call, the first
*  *bytes* will be sent and the eBPF program will be re-run with
*  the pointer for start of data pointing to byte number *bytes*
*  **+ 1**. If *bytes* is larger than the current data being
*  processed, then the eBPF verdict will be applied to multiple
*  **sendmsg**\ () or **sendfile**\ () calls until *bytes* are
*  consumed.
*
*  Note that if a socket closes with the
 internal counter holding
*  a non-zero value, this is not a problem because data is not
*  being buffered for *bytes* and is sent as it is received.
*
* Returns
*  0
*/
static long (* const bpf_msg_apply_bytes)(struct sk_msg_md *msg, __u32 bytes) = (void *) 61;

/*
* bpf_msg_cork_bytes
*
*  For socket policies, prevent the execution of the verdict eBPF
*  program for message *msg* until *bytes* (byte number) have been
*  accumulated.
*
*  This can be used when one needs a specific number of bytes
*  before a verdict can be assigned, even if the data spans
*  multiple **sendmsg**\ () or **sendfile**\ () calls. The extreme
*  case would be a user calling **sendmsg**\ () repeatedly with
*  1-byte long message segments. Obviously, this is bad for
*  performance, but it is still valid. If the eBPF program needs
*  *bytes* bytes to validate a header, this helper can be used to
*  prevent the eBPF program to be called again until *bytes* have
*  been accumulated.
*
* Returns
 *  0
*/
static long (* const bpf_msg_cork_bytes)(struct sk_msg_md *msg, __u32 bytes) = (void *) 62;

/*
* bpf_msg_pull_data
*
*  For socket policies, pull in non-linear data from user space
*  for *msg* and set pointers *msg*\ **->data** and *msg*\
*  **->data_end** to *start* and *end* bytes offsets into *msg*,
*  respectively.
```

```
*
*  If a program of type **BPF_PROG_TYPE_SK_MSG** is run on a
*  *msg* it can only parse data that the (**data**, **data_end**)
*  pointers have already consumed. For **sendmsg**\ () hooks this
*  is likely the first scatterlist element. But for calls relying
*  on the **sendpage** handler (e.g. **sendfile**\ ()) this will
*  be the range (**0**, **0**) because the data is shared with
*  user space and by default the objective is to avoid allowing
*  user space to modify data while (or after) eBPF verdict is
*  being decided. This helper can be used to pull in data and to
*  set the start and end pointer to given values. Data will be
 *  copied if necessary (i.e. if data was not linear and if start
*  and end pointers do not point to the same chunk).
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_msg_pull_data)(struct sk_msg_md *msg, __u32 start, __u32 end, __u64 flags) = (void *)
63;

/*
* bpf_bind
*
*  Bind the socket associated to *ctx* to the address pointed by
*  *addr*, of length *addr_len*. This allows for making outgoing
*  connection from the desired IP address, which can be useful for
*  example when all processes inside a cgroup should use one
*  single IP address on a host
 that has multiple IP configured.
*
*  This helper works for IPv4 and IPv6, TCP and UDP sockets. The
*  domain (*addr*\ **->sa_family**) must be **AF_INET** (or
*  **AF_INET6**). It's advised to pass zero port (**sin_port**
*  or **sin6_port**) which triggers IP_BIND_ADDRESS_NO_PORT-like
*  behavior and lets the kernel efficiently pick up an unused
*  port as long as 4-tuple is unique. Passing non-zero port might
*  lead to degraded performance.
*
* Returns
```

```
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_bind)(struct bpf_sock_addr *ctx, struct sockaddr *addr, int addr_len) = (void *) 64;

/*
* bpf_xdp_adjust_tail
*
*  Adjust (move) *xdp_md*\ **->data_end** by *delta* bytes. It is
*  possible to both shrink and grow the packet tail.
*  Shrink done via *delta* being a negative integer.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously
 done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_adjust_tail)(struct xdp_md *xdp_md, int delta) = (void *) 65;

/*
* bpf_skb_get_xfrm_state
*
*  Retrieve the XFRM state (IP transform framework, see also
*  **ip-xfrm(8)**) at *index* in XFRM "security path" for *skb*.
*
*  The retrieved value is stored in the **struct bpf_xfrm_state**
*  pointed by *xfrm_state* and of length *size*.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
*  This helper is available only if the kernel was compiled with
*  **CONFIG_XFRM** configuration option.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_get_xfrm_state)(struct __sk_buff *skb, __u32 index, struct bpf_xfrm_state *xfrm_state,
__u32 size, __u64
 flags) = (void *) 66;

/*
* bpf_get_stack
*
```

```
*  Return a user or a kernel stack in bpf program provided buffer.
*  To achieve this, the helper needs *ctx*, which is a pointer
*  to the context on which the tracing program is executed.
*  To store the stacktrace, the bpf program provides *buf* with
*  a nonnegative *size*.
*
*  The last argument, *flags*, holds the number of stack frames to
*  skip (from 0 to 255), masked with
*  **BPF_F_SKIP_FIELD_MASK**. The next bits can be used to set
*  the following flags:
*
*  **BPF_F_USER_STACK**
*   Collect a user space stack instead of a kernel stack.
*  **BPF_F_USER_BUILD_ID**
*   Collect (build_id, file_offset) instead of ips for user
*   stack, only valid if **BPF_F_USER_STACK** is also
*   specified.
*
*   *file_offset* is an offset relative to the beginning
*   of the executable or shared object file backing the vma
*   which the *ip* falls in. It is *not* an offset relative
*   to that object's base address. Accordingly,
 it must be
*   adjusted by adding (sh_addr - sh_offset), where
*   sh_{addr,offset} correspond to the executable section
*   containing *file_offset* in the object, for comparisons
*   to symbols' st_value to be valid.
*
*  **bpf_get_stack**\ () can collect up to
*  **PERF_MAX_STACK_DEPTH** both kernel and user frames, subject
*  to sufficient large buffer size. Note that
*  this limit can be controlled with the **sysctl** program, and
*  that it should be manually increased in order to profile long
*  user stacks (such as stacks for Java programs). To do so, use:
*
*  ::
*
*   # sysctl kernel.perf_event_max_stack=<new value>
*
* Returns
*  The non-negative copied *buf* length equal to or less than
*  *size* on success, or a negative error in case of failure.
*/
static long (* const bpf_get_stack)(void *ctx, void *buf, __u32 size, __u64 flags) = (void *) 67;

/*
* bpf_skb_load_bytes_relative
*
```

```
*  This helper is similar to **bpf_skb_load_bytes**\ () in that
 *  it provides an easy way to load *len* bytes from *offset*
*  from the packet associated to *skb*, into the buffer pointed
*  by *to*. The difference to **bpf_skb_load_bytes**\ () is that
*  a fifth argument *start_header* exists in order to select a
*  base offset to start from. *start_header* can be one of:
*
*  **BPF_HDR_START_MAC**
*   Base offset to load data from is *skb*'s mac header.
*  **BPF_HDR_START_NET**
*   Base offset to load data from is *skb*'s network header.
*
*  In general, "direct packet access" is the preferred method to
*  access packet data, however, this helper is in particular useful
*  in socket filters where *skb*\ **->data** does not always point
*  to the start of the mac header and where "direct packet access"
*  is not available.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_load_bytes_relative)(const void *skb, __u32 offset, void *to, __u32 len, __u32
start_header) = (void *) 68;

/*
 * bpf_fib_lookup
*
*  Do FIB lookup in kernel tables using parameters in *params*.
*  If lookup is successful and result shows packet is to be
*  forwarded, the neighbor tables are searched for the nexthop.
*  If successful (ie., FIB lookup shows forwarding and nexthop
*  is resolved), the nexthop address is returned in ipv4_dst
*  or ipv6_dst based on family, smac is set to mac address of
*  egress device, dmac is set to nexthop mac address, rt_metric
*  is set to metric from route (IPv4/IPv6 only), and ifindex
*  is set to the device index of the nexthop from the FIB lookup.
*
*  *plen* argument is the size of the passed in struct.
*  *flags* argument can be a combination of one or more of the
*  following values:
*
*  **BPF_FIB_LOOKUP_DIRECT**
*   Do a direct table lookup vs full lookup using FIB
*   rules.
*  **BPF_FIB_LOOKUP_TBID**
*   Used with BPF_FIB_LOOKUP_DIRECT.
*   Use the routing table ID present in *params*->tbid
*   for the fib lookup.
```

```
*  **BPF_FIB_LOOKUP_OUTPUT**
 *   Perform lookup from an egress perspective (default is
*   ingress).
*  **BPF_FIB_LOOKUP_SKIP_NEIGH**
*   Skip the neighbour table lookup. *params*->dmac
*   and *params*->smac will not be set as output. A common
*   use case is to call **bpf_redirect_neigh**\ () after
*   doing **bpf_fib_lookup**\ ().
*  **BPF_FIB_LOOKUP_SRC**
*   Derive and set source IP addr in *params*->ipv{4,6}_src
*   for the nexthop. If the src addr cannot be derived,
*   **BPF_FIB_LKUP_RET_NO_SRC_ADDR** is returned. In this
*   case, *params*->dmac and *params*->smac are not set either.
*
*  *ctx* is either **struct xdp_md** for XDP programs or
*  **struct sk_buff** tc cls_act programs.
*
* Returns
*  * < 0 if any input argument is invalid
*  *    0 on success (packet is forwarded, nexthop neighbor exists)
*  * > 0 one of **BPF_FIB_LKUP_RET_** codes explaining why the
*     packet is not forwarded or needs assist from full stack
*
*  If lookup fails with BPF_FIB_LKUP_RET_FRAG_NEEDED,
 then the MTU
*  was exceeded and output params->mtu_result contains the MTU.
*/
static long (* const bpf_fib_lookup)(void *ctx, struct bpf_fib_lookup *params, int plen, __u32 flags) = (void *) 69;

/*
* bpf_sock_hash_update
*
*  Add an entry to, or update a sockhash *map* referencing sockets.
*  The *skops* is used as a new value for the entry associated to
*  *key*. *flags* is one of:
*
*  **BPF_NOEXIST**
*   The entry for *key* must not exist in the map.
*  **BPF_EXIST**
*   The entry for *key* must already exist in the map.
*  **BPF_ANY**
*   No condition on the existence of the entry for *key*.
*
*  If the *map* has eBPF programs (parser and verdict), those will
*  be inherited by the socket being added. If the socket is
*  already attached to eBPF programs, this results in an error.
*
* Returns
```

```
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_sock_hash_update)(struct bpf_sock_ops *skops, void *map, void
 *key, __u64 flags) = (void *) 70;

/*
* bpf_msg_redirect_hash
*
*  This helper is used in programs implementing policies at the
*  socket level. If the message *msg* is allowed to pass (i.e. if
*  the verdict eBPF program returns **SK_PASS**), redirect it to
*  the socket referenced by *map* (of type
*  **BPF_MAP_TYPE_SOCKHASH**) using hash *key*. Both ingress and
*  egress interfaces can be used for redirection. The
*  **BPF_F_INGRESS** value in *flags* is used to make the
*  distinction (ingress path is selected if the flag is present,
*  egress path otherwise). This is the only flag supported for now.
*
* Returns
*  **SK_PASS** on success, or **SK_DROP** on error.
*/
static long (* const bpf_msg_redirect_hash)(struct sk_msg_md *msg, void *map, void *key, __u64 flags) = (void *)
71;

/*
* bpf_sk_redirect_hash
*
*  This helper is used in programs implementing policies at the
*  skb socket level. If the sk_buff *skb* is allowed to pass (i.e.
*  if the verdict eBPF
 program returns **SK_PASS**), redirect it
*  to the socket referenced by *map* (of type
*  **BPF_MAP_TYPE_SOCKHASH**) using hash *key*. Both ingress and
*  egress interfaces can be used for redirection. The
*  **BPF_F_INGRESS** value in *flags* is used to make the
*  distinction (ingress path is selected if the flag is present,
*  egress otherwise). This is the only flag supported for now.
*
* Returns
*  **SK_PASS** on success, or **SK_DROP** on error.
*/
static long (* const bpf_sk_redirect_hash)(struct __sk_buff *skb, void *map, void *key, __u64 flags) = (void *) 72;

/*
* bpf_lwt_push_encap
*
*  Encapsulate the packet associated to *skb* within a Layer 3
*  protocol header. This header is provided in the buffer at
```

```
*  address *hdr*, with *len* its size in bytes. *type* indicates
*  the protocol of the header and can be one of:
*
*  **BPF_LWT_ENCAP_SEG6**
*   IPv6 encapsulation with Segment Routing Header
*   (**struct ipv6_sr_hdr**). *hdr* only contains the SRH,
 *   the IPv6 header is computed by the kernel.
*  **BPF_LWT_ENCAP_SEG6_INLINE**
*   Only works if *skb* contains an IPv6 packet. Insert a
*   Segment Routing Header (**struct ipv6_sr_hdr**) inside
*   the IPv6 header.
*  **BPF_LWT_ENCAP_IP**
*   IP encapsulation (GRE/GUE/IPIP/etc). The outer header
*   must be IPv4 or IPv6, followed by zero or more
*   additional headers, up to **LWT_BPF_MAX_HEADROOM**
*   total bytes in all prepended headers. Please note that
*   if **skb_is_gso**\ (*skb*) is true, no more than two
*   headers can be prepended, and the inner header, if
*   present, should be either GRE or UDP/GUE.
*
*  **BPF_LWT_ENCAP_SEG6**\ \* types can be called by BPF programs
*  of type **BPF_PROG_TYPE_LWT_IN**; **BPF_LWT_ENCAP_IP** type can
*  be called by bpf programs of types **BPF_PROG_TYPE_LWT_IN** and
*  **BPF_PROG_TYPE_LWT_XMIT**.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on
 pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_lwt_push_encap)(struct __sk_buff *skb, __u32 type, void *hdr, __u32 len) = (void *) 73;

/*
* bpf_lwt_seg6_store_bytes
*
*  Store *len* bytes from address *from* into the packet
*  associated to *skb*, at *offset*. Only the flags, tag and TLVs
*  inside the outermost IPv6 Segment Routing Header can be
*  modified through this helper.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
```

```
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_lwt_seg6_store_bytes)(struct
 __sk_buff *skb, __u32 offset, const void *from, __u32 len) = (void *) 74;

/*
* bpf_lwt_seg6_adjust_srh
*
*  Adjust the size allocated to TLVs in the outermost IPv6
*  Segment Routing Header contained in the packet associated to
*  *skb*, at position *offset* by *delta* bytes. Only offsets
*  after the segments are accepted. *delta* can be as well
*  positive (growing) as negative (shrinking).
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_lwt_seg6_adjust_srh)(struct __sk_buff *skb, __u32 offset, __s32 delta) = (void *) 75;

/*
* bpf_lwt_seg6_action
*
*  Apply an IPv6 Segment Routing action of type *action* to the
 *  packet associated to *skb*. Each action takes a parameter
*  contained at address *param*, and of length *param_len* bytes.
*  *action* can be one of:
*
*  **SEG6_LOCAL_ACTION_END_X**
*   End.X action: Endpoint with Layer-3 cross-connect.
*   Type of *param*: **struct in6_addr**.
*  **SEG6_LOCAL_ACTION_END_T**
*   End.T action: Endpoint with specific IPv6 table lookup.
*   Type of *param*: **int**.
*  **SEG6_LOCAL_ACTION_END_B6**
*   End.B6 action: Endpoint bound to an SRv6 policy.
*   Type of *param*: **struct ipv6_sr_hdr**.
*  **SEG6_LOCAL_ACTION_END_B6_ENCAP**
*   End.B6.Encap action: Endpoint bound to an SRv6
```

```
*   encapsulation policy.
*   Type of *param*: **struct ipv6_sr_hdr**.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
 *
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_lwt_seg6_action)(struct __sk_buff *skb, __u32 action, void *param, __u32 param_len) =
(void *) 76;

/*
* bpf_rc_repeat
*
*  This helper is used in programs implementing IR decoding, to
*  report a successfully decoded repeat key message. This delays
*  the generation of a key up event for previously generated
*  key down event.
*
*  Some IR protocols like NEC have a special IR message for
*  repeating last button, for when a button is held down.
*
*  The *ctx* should point to the lirc sample as passed into
*  the program.
*
*  This helper is only available is the kernel was compiled with
*  the **CONFIG_BPF_LIRC_MODE2** configuration option set to
*  "**y**".
*
* Returns
*  0
*/
static long (* const bpf_rc_repeat)(void *ctx) = (void *) 77;

/*
* bpf_rc_keydown
*
*  This helper is used in programs implementing IR decoding, to
*  report a successfully decoded key
 press with *scancode*,
*  *toggle* value in the given *protocol*. The scancode will be
*  translated to a keycode using the rc keymap, and reported as
*  an input key down event. After a period a key up event is
*  generated. This period can be extended by calling either
```

```
*  **bpf_rc_keydown**\ () again with the same values, or calling
*  **bpf_rc_repeat**\ ().
*
*  Some protocols include a toggle bit, in case the button was
*  released and pressed again between consecutive scancodes.
*
*  The *ctx* should point to the lirc sample as passed into
*  the program.
*
*  The *protocol* is the decoded protocol number (see
*  **enum rc_proto** for some predefined values).
*
*  This helper is only available is the kernel was compiled with
*  the **CONFIG_BPF_LIRC_MODE2** configuration option set to
*  "**y**".
*
* Returns
*  0
*/
static long (* const bpf_rc_keydown)(void *ctx, __u32 protocol, __u64 scancode, __u32 toggle) = (void *) 78;

/*
* bpf_skb_cgroup_id
*
*  Return
 the cgroup v2 id of the socket associated with the *skb*.
*  This is roughly similar to the **bpf_get_cgroup_classid**\ ()
*  helper for cgroup v1 by providing a tag resp. identifier that
*  can be matched on or used for map lookups e.g. to implement
*  policy. The cgroup v2 id of a given path in the hierarchy is
*  exposed in user space through the f_handle API in order to get
*  to the same 64-bit id.
*
*  This helper can be used on TC egress path, but not on ingress,
*  and is available only if the kernel was compiled with the
*  **CONFIG_SOCK_CGROUP_DATA** configuration option.
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_skb_cgroup_id)(struct __sk_buff *skb) = (void *) 79;

/*
* bpf_get_current_cgroup_id
*
*  Get the current cgroup id based on the cgroup within which
*  the current task is running.
*
```

```
* Returns
*  A 64-bit integer containing the current cgroup id based
*  on the cgroup within which
 the current task is running.
*/
static __u64 (* const bpf_get_current_cgroup_id)(void) = (void *) 80;

/*
* bpf_get_local_storage
*
*  Get the pointer to the local storage area.
*  The type and the size of the local storage is defined
*  by the *map* argument.
*  The *flags* meaning is specific for each map type,
*  and has to be 0 for cgroup local storage.
*
*  Depending on the BPF program type, a local storage area
*  can be shared between multiple instances of the BPF program,
*  running simultaneously.
*
*  A user should care about the synchronization by himself.
*  For example, by using the **BPF_ATOMIC** instructions to alter
*  the shared data.
*
* Returns
*  A pointer to the local storage area.
*/
static void *(* const bpf_get_local_storage)(void *map, __u64 flags) = (void *) 81;

/*
* bpf_sk_select_reuseport
*
*  Select a **SO_REUSEPORT** socket from a
*  **BPF_MAP_TYPE_REUSEPORT_SOCKARRAY** *map*.
*  It checks the selected socket is matching the incoming
 *  request in the socket buffer.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_sk_select_reuseport)(struct sk_reuseport_md *reuse, void *map, void *key, __u64 flags) =
(void *) 82;

/*
* bpf_skb_ancestor_cgroup_id
*
*  Return id of cgroup v2 that is ancestor of cgroup associated
*  with the *skb* at the *ancestor_level*.  The root cgroup is at
```

```
*  *ancestor_level* zero and each step down the hierarchy
*  increments the level. If *ancestor_level* == level of cgroup
*  associated with *skb*, then return value will be same as that
*  of **bpf_skb_cgroup_id**\ ().
*
*  The helper is useful to implement policies based on cgroups
*  that are upper in hierarchy than immediate cgroup associated
*  with *skb*.
*
*  The format of returned id and helper limitations are same as in
*  **bpf_skb_cgroup_id**\ ().
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_skb_ancestor_cgroup_id)(struct
 __sk_buff *skb, int ancestor_level) = (void *) 83;

/*
* bpf_sk_lookup_tcp
*
*  Look for TCP socket matching *tuple*, optionally in a child
*  network namespace *netns*. The return value must be checked,
*  and if non-**NULL**, released via **bpf_sk_release**\ ().
*
*  The *ctx* should point to the context of the program, such as
*  the skb or socket (depending on the hook in use). This is used
*  to determine the base network namespace for the lookup.
*
*  *tuple_size* must be one of:
*
*  **sizeof**\ (*tuple*\ **->ipv4**)
*   Look for an IPv4 socket.
*  **sizeof**\ (*tuple*\ **->ipv6**)
*   Look for an IPv6 socket.
*
*  If the *netns* is a negative signed 32-bit integer, then the
*  socket lookup table in the netns associated with the *ctx*
*  will be used. For the TC hooks, this is the netns of the device
*  in the skb. For socket hooks, this is the netns of the socket.
*  If *netns* is any other signed 32-bit value greater than or
 *  equal to zero then it specifies the ID of the netns relative to
*  the netns associated with the *ctx*. *netns* values beyond the
*  range of 32-bit integers are reserved for future use.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
```

```
*  This helper is available only if the kernel was compiled with
*  **CONFIG_NET** configuration option.
*
* Returns
*  Pointer to **struct bpf_sock**, or **NULL** in case of failure.
*  For sockets with reuseport option, the **struct bpf_sock**
*  result is from *reuse*\ **->socks**\ [] using the hash of the
*  tuple.
*/
static struct bpf_sock *(* const bpf_sk_lookup_tcp)(void *ctx, struct bpf_sock_tuple *tuple, __u32 tuple_size,
__u64 netns, __u64 flags) = (void *) 84;

/*
* bpf_sk_lookup_udp
*
*  Look for UDP socket matching *tuple*, optionally in a child
*  network namespace *netns*. The return value must be checked,
*  and if non-**NULL**, released via **bpf_sk_release**\ ().
*
*  The
 *ctx* should point to the context of the program, such as
*  the skb or socket (depending on the hook in use). This is used
*  to determine the base network namespace for the lookup.
*
*  *tuple_size* must be one of:
*
*  **sizeof**\ (*tuple*\ **->ipv4**)
*   Look for an IPv4 socket.
*  **sizeof**\ (*tuple*\ **->ipv6**)
*   Look for an IPv6 socket.
*
*  If the *netns* is a negative signed 32-bit integer, then the
*  socket lookup table in the netns associated with the *ctx*
*  will be used. For the TC hooks, this is the netns of the device
*  in the skb. For socket hooks, this is the netns of the socket.
*  If *netns* is any other signed 32-bit value greater than or
*  equal to zero then it specifies the ID of the netns relative to
*  the netns associated with the *ctx*. *netns* values beyond the
*  range of 32-bit integers are reserved for future use.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
*  This helper is available
 only if the kernel was compiled with
*  **CONFIG_NET** configuration option.
*
* Returns
```

```
*  Pointer to **struct bpf_sock**, or **NULL** in case of failure.
*  For sockets with reuseport option, the **struct bpf_sock**
*  result is from *reuse*\ **->socks**\ [] using the hash of the
*  tuple.
*/
static struct bpf_sock *(* const bpf_sk_lookup_udp)(void *ctx, struct bpf_sock_tuple *tuple, __u32 tuple_size,
__u64 netns, __u64 flags) = (void *) 85;

/*
* bpf_sk_release
*
*  Release the reference held by *sock*. *sock* must be a
*  non-**NULL** pointer that was returned from
*  **bpf_sk_lookup_xxx**\ ().
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_sk_release)(void *sock) = (void *) 86;

/*
* bpf_map_push_elem
*
*  Push an element *value* in *map*. *flags* is one of:
*
*  **BPF_EXIST**
*   If the queue/stack is full, the oldest element is
*   removed to make room for this.
*
* Returns
*  0 on success, or
 a negative error in case of failure.
*/
static long (* const bpf_map_push_elem)(void *map, const void *value, __u64 flags) = (void *) 87;

/*
* bpf_map_pop_elem
*
*  Pop an element from *map*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_map_pop_elem)(void *map, void *value) = (void *) 88;

/*
* bpf_map_peek_elem
*
```

```
*  Get an element from *map* without removing it.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_map_peek_elem)(void *map, void *value) = (void *) 89;

/*
* bpf_msg_push_data
*
*  For socket policies, insert *len* bytes into *msg* at offset
*  *start*.
*
*  If a program of type **BPF_PROG_TYPE_SK_MSG** is run on a
*  *msg* it may want to insert metadata or options into the *msg*.
*  This can later be read and used by any of the lower layer BPF
*  hooks.
*
*  This helper may fail if under memory pressure (a malloc
*  fails) in these cases BPF programs
 will get an appropriate
*  error and BPF programs will need to handle them.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_msg_push_data)(struct sk_msg_md *msg, __u32 start, __u32 len, __u64 flags) = (void *)
90;

/*
* bpf_msg_pop_data
*
*  Will remove *len* bytes from a *msg* starting at byte *start*.
*  This may result in **ENOMEM** errors under certain situations if
*  an allocation and copy are required due to a full ring buffer.
*  However, the helper will try to avoid doing the allocation
*  if possible. Other errors can occur if input parameters are
*  invalid either due to *start* byte not being valid part of *msg*
*  payload and/or *pop* value being to large.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_msg_pop_data)(struct sk_msg_md *msg, __u32 start, __u32 len, __u64 flags) = (void *) 91;

/*
* bpf_rc_pointer_rel
*
```

```
*  This helper is used in programs implementing
 IR decoding, to
*  report a successfully decoded pointer movement.
*
*  The *ctx* should point to the lirc sample as passed into
*  the program.
*
*  This helper is only available is the kernel was compiled with
*  the **CONFIG_BPF_LIRC_MODE2** configuration option set to
*  "**y**".
*
* Returns
*  0
*/
static long (* const bpf_rc_pointer_rel)(void *ctx, __s32 rel_x, __s32 rel_y) = (void *) 92;

/*
* bpf_spin_lock
*
*  Acquire a spinlock represented by the pointer *lock*, which is
*  stored as part of a value of a map. Taking the lock allows to
*  safely update the rest of the fields in that value. The
*  spinlock can (and must) later be released with a call to
*  **bpf_spin_unlock**\ (\ *lock*\ ).
*
*  Spinlocks in BPF programs come with a number of restrictions
*  and constraints:
*
*  * **bpf_spin_lock** objects are only allowed inside maps of
*    types **BPF_MAP_TYPE_HASH** and **BPF_MAP_TYPE_ARRAY** (this
*    list could be extended in the future).
 *  * BTF description of the map is mandatory.
*  * The BPF program can take ONE lock at a time, since taking two
*    or more could cause dead locks.
*  * Only one **struct bpf_spin_lock** is allowed per map element.
*  * When the lock is taken, calls (either BPF to BPF or helpers)
*    are not allowed.
*  * The **BPF_LD_ABS** and **BPF_LD_IND** instructions are not
*    allowed inside a spinlock-ed region.
*  * The BPF program MUST call **bpf_spin_unlock**\ () to release
*    the lock, on all execution paths, before it returns.
*  * The BPF program can access **struct bpf_spin_lock** only via
*    the **bpf_spin_lock**\ () and **bpf_spin_unlock**\ ()
*    helpers. Loading or storing data into the **struct
*    bpf_spin_lock** *lock*\ **;** field of a map is not allowed.
*  * To use the **bpf_spin_lock**\ () helper, the BTF description
*    of the map value must be a struct and have **struct
*    bpf_spin_lock** *anyname*\ **;** field at the top level.
```

```
*    Nested
 lock inside another struct is not allowed.
*  * The **struct bpf_spin_lock** *lock* field in a map value must
*    be aligned on a multiple of 4 bytes in that value.
*  * Syscall with command **BPF_MAP_LOOKUP_ELEM** does not copy
*    the **bpf_spin_lock** field to user space.
*  * Syscall with command **BPF_MAP_UPDATE_ELEM**, or update from
*    a BPF program, do not update the **bpf_spin_lock** field.
*  * **bpf_spin_lock** cannot be on the stack or inside a
*    networking packet (it can only be inside of a map values).
*  * **bpf_spin_lock** is available to root only.
*  * Tracing programs and socket filter programs cannot use
*    **bpf_spin_lock**\ () due to insufficient preemption checks
*    (but this may change in the future).
*  * **bpf_spin_lock** is not allowed in inner maps of map-in-map.
*
* Returns
*  0
*/
static long (* const bpf_spin_lock)(struct bpf_spin_lock *lock) = (void *) 93;

/*
* bpf_spin_unlock
*
*  Release the *lock* previously locked
 by a call to
*  **bpf_spin_lock**\ (\ *lock*\ ).
*
* Returns
*  0
*/
static long (* const bpf_spin_unlock)(struct bpf_spin_lock *lock) = (void *) 94;

/*
* bpf_sk_fullsock
*
*  This helper gets a **struct bpf_sock** pointer such
*  that all the fields in this **bpf_sock** can be accessed.
*
* Returns
*  A **struct bpf_sock** pointer on success, or **NULL** in
*  case of failure.
*/
static struct bpf_sock *(* const bpf_sk_fullsock)(struct bpf_sock *sk) = (void *) 95;

/*
* bpf_tcp_sock
*
```

```
*  This helper gets a **struct bpf_tcp_sock** pointer from a
*  **struct bpf_sock** pointer.
*
* Returns
*  A **struct bpf_tcp_sock** pointer on success, or **NULL** in
*  case of failure.
*/
static struct bpf_tcp_sock *(* const bpf_tcp_sock)(struct bpf_sock *sk) = (void *) 96;

/*
* bpf_skb_ecn_set_ce
*
*  Set ECN (Explicit Congestion Notification) field of IP header
*  to **CE** (Congestion Encountered) if current value is **ECT**
*  (ECN Capable Transport). Otherwise, do nothing.
 Works with IPv6
*  and IPv4.
*
* Returns
*  1 if the **CE** flag is set (either by the current helper call
*  or because it was already present), 0 if it is not set.
*/
static long (* const bpf_skb_ecn_set_ce)(struct __sk_buff *skb) = (void *) 97;

/*
* bpf_get_listener_sock
*
*  Return a **struct bpf_sock** pointer in **TCP_LISTEN** state.
*  **bpf_sk_release**\ () is unnecessary and not allowed.
*
* Returns
*  A **struct bpf_sock** pointer on success, or **NULL** in
*  case of failure.
*/
static struct bpf_sock *(* const bpf_get_listener_sock)(struct bpf_sock *sk) = (void *) 98;

/*
* bpf_skc_lookup_tcp
*
*  Look for TCP socket matching *tuple*, optionally in a child
*  network namespace *netns*. The return value must be checked,
*  and if non-**NULL**, released via **bpf_sk_release**\ ().
*
*  This function is identical to **bpf_sk_lookup_tcp**\ (), except
*  that it also returns timewait or request sockets. Use
*  **bpf_sk_fullsock**\ () or **bpf_tcp_sock**\
 () to access the
*  full structure.
```

```
*
*  This helper is available only if the kernel was compiled with
*  **CONFIG_NET** configuration option.
*
* Returns
*  Pointer to **struct bpf_sock**, or **NULL** in case of failure.
*  For sockets with reuseport option, the **struct bpf_sock**
*  result is from *reuse*\ **->socks**\ [] using the hash of the
*  tuple.
*/
static struct bpf_sock *(* const bpf_skc_lookup_tcp)(void *ctx, struct bpf_sock_tuple *tuple, __u32 tuple_size,
__u64 netns, __u64 flags) = (void *) 99;

/*
* bpf_tcp_check_syncookie
*
*  Check whether *iph* and *th* contain a valid SYN cookie ACK for
*  the listening socket in *sk*.
*
*  *iph* points to the start of the IPv4 or IPv6 header, while
*  *iph_len* contains **sizeof**\ (**struct iphdr**) or
*  **sizeof**\ (**struct ipv6hdr**).
*
*  *th* points to the start of the TCP header, while *th_len*
*  contains the length of the TCP header (at least
*  **sizeof**\ (**struct tcphdr**)).
*
* Returns
 *  0 if *iph* and *th* are a valid SYN cookie ACK, or a negative
*  error otherwise.
*/
static long (* const bpf_tcp_check_syncookie)(void *sk, void *iph, __u32 iph_len, struct tcphdr *th, __u32 th_len)
= (void *) 100;

/*
* bpf_sysctl_get_name
*
*  Get name of sysctl in /proc/sys/ and copy it into provided by
*  program buffer *buf* of size *buf_len*.
*
*  The buffer is always NUL terminated, unless it's zero-sized.
*
*  If *flags* is zero, full name (e.g. "net/ipv4/tcp_mem") is
*  copied. Use **BPF_F_SYSCTL_BASE_NAME** flag to copy base name
*  only (e.g. "tcp_mem").
*
* Returns
*  Number of character copied (not including the trailing NUL).
```

```
*
*  **-E2BIG** if the buffer wasn't big enough (*buf* will contain
*  truncated name in this case).
*/
static long (* const bpf_sysctl_get_name)(struct bpf_sysctl *ctx, char *buf, unsigned long buf_len, __u64 flags) =
(void *) 101;

/*
* bpf_sysctl_get_current_value
*
*  Get current value of sysctl as it is presented in
 /proc/sys
*  (incl. newline, etc), and copy it as a string into provided
*  by program buffer *buf* of size *buf_len*.
*
*  The whole value is copied, no matter what file position user
*  space issued e.g. sys_read at.
*
*  The buffer is always NUL terminated, unless it's zero-sized.
*
* Returns
*  Number of character copied (not including the trailing NUL).
*
*  **-E2BIG** if the buffer wasn't big enough (*buf* will contain
*  truncated name in this case).
*
*  **-EINVAL** if current value was unavailable, e.g. because
*  sysctl is uninitialized and read returns -EIO for it.
*/
static long (* const bpf_sysctl_get_current_value)(struct bpf_sysctl *ctx, char *buf, unsigned long buf_len) = (void
*) 102;

/*
* bpf_sysctl_get_new_value
*
*  Get new value being written by user space to sysctl (before
*  the actual write happens) and copy it as a string into
*  provided by program buffer *buf* of size *buf_len*.
*
*  User space may write new value at file position >
 0.
*
*  The buffer is always NUL terminated, unless it's zero-sized.
*
* Returns
*  Number of character copied (not including the trailing NUL).
*
*  **-E2BIG** if the buffer wasn't big enough (*buf* will contain
```

```
*  truncated name in this case).
*
*  **-EINVAL** if sysctl is being read.
*/
static long (* const bpf_sysctl_get_new_value)(struct bpf_sysctl *ctx, char *buf, unsigned long buf_len) = (void *)
103;

/*
* bpf_sysctl_set_new_value
*
*  Override new value being written by user space to sysctl with
*  value provided by program in buffer *buf* of size *buf_len*.
*
*  *buf* should contain a string in same form as provided by user
*  space on sysctl write.
*
*  User space may write new value at file position > 0. To override
*  the whole sysctl value file position should be set to zero.
*
* Returns
*  0 on success.
*
*  **-E2BIG** if the *buf_len* is too big.
*
*  **-EINVAL** if sysctl is being read.
*/
static long (* const bpf_sysctl_set_new_value)(struct
 bpf_sysctl *ctx, const char *buf, unsigned long buf_len) = (void *) 104;

/*
* bpf_strtol
*
*  Convert the initial part of the string from buffer *buf* of
*  size *buf_len* to a long integer according to the given base
*  and save the result in *res*.
*
*  The string may begin with an arbitrary amount of white space
*  (as determined by **isspace**\ (3)) followed by a single
*  optional '**-**' sign.
*
*  Five least significant bits of *flags* encode base, other bits
*  are currently unused.
*
*  Base must be either 8, 10, 16 or 0 to detect it automatically
*  similar to user space **strtol**\ (3).
*
* Returns
*  Number of characters consumed on success. Must be positive but
```

```
*  no more than *buf_len*.
*
*  **-EINVAL** if no valid digits were found or unsupported base
*  was provided.
*
*  **-ERANGE** if resulting value was out of range.
*/
static long (* const bpf_strtol)(const char *buf, unsigned long buf_len, __u64 flags, long *res) = (void *) 105;

/*
*
 bpf_strtoul
*
*  Convert the initial part of the string from buffer *buf* of
*  size *buf_len* to an unsigned long integer according to the
*  given base and save the result in *res*.
*
*  The string may begin with an arbitrary amount of white space
*  (as determined by **isspace**\ (3)).
*
*  Five least significant bits of *flags* encode base, other bits
*  are currently unused.
*
*  Base must be either 8, 10, 16 or 0 to detect it automatically
*  similar to user space **strtoul**\ (3).
*
* Returns
*  Number of characters consumed on success. Must be positive but
*  no more than *buf_len*.
*
*  **-EINVAL** if no valid digits were found or unsupported base
*  was provided.
*
*  **-ERANGE** if resulting value was out of range.
*/
static long (* const bpf_strtoul)(const char *buf, unsigned long buf_len, __u64 flags, unsigned long *res) = (void *)
106;

/*
* bpf_sk_storage_get
*
*  Get a bpf-local-storage from a *sk*.
*
*  Logically, it could be thought of getting
 the value from
*  a *map* with *sk* as the **key**.  From this
*  perspective,  the usage is not much different from
*  **bpf_map_lookup_elem**\ (*map*, **&**\ *sk*) except this
```

```
*  helper enforces the key must be a full socket and the map must
*  be a **BPF_MAP_TYPE_SK_STORAGE** also.
*
*  Underneath, the value is stored locally at *sk* instead of
*  the *map*.  The *map* is used as the bpf-local-storage
*  "type". The bpf-local-storage "type" (i.e. the *map*) is
*  searched against all bpf-local-storages residing at *sk*.
*
*  *sk* is a kernel **struct sock** pointer for LSM program.
*  *sk* is a **struct bpf_sock** pointer for other program types.
*
*  An optional *flags* (**BPF_SK_STORAGE_GET_F_CREATE**) can be
*  used such that a new bpf-local-storage will be
*  created if one does not exist.  *value* can be used
*  together with **BPF_SK_STORAGE_GET_F_CREATE** to specify
*  the initial value of a bpf-local-storage.  If *value* is
*  **NULL**, the new bpf-local-storage
 will be zero initialized.
*
* Returns
*  A bpf-local-storage pointer is returned on success.
*
*  **NULL** if not found or there was an error in adding
*  a new bpf-local-storage.
*/
static void *(* const bpf_sk_storage_get)(void *map, void *sk, void *value, __u64 flags) = (void *) 107;

/*
* bpf_sk_storage_delete
*
*  Delete a bpf-local-storage from a *sk*.
*
* Returns
*  0 on success.
*
*  **-ENOENT** if the bpf-local-storage cannot be found.
*  **-EINVAL** if sk is not a fullsock (e.g. a request_sock).
*/
static long (* const bpf_sk_storage_delete)(void *map, void *sk) = (void *) 108;

/*
* bpf_send_signal
*
*  Send signal *sig* to the process of the current task.
*  The signal may be delivered to any of this process's threads.
*
* Returns
*  0 on success or successfully queued.
```

```
*
*  **-EBUSY** if work queue under nmi is full.
*
*  **-EINVAL** if *sig* is invalid.
*
*  **-EPERM** if no permission to send the *sig*.
*
*  **-EAGAIN** if bpf
 program can try again.
*/
static long (* const bpf_send_signal)(__u32 sig) = (void *) 109;

/*
* bpf_tcp_gen_syncookie
*
*  Try to issue a SYN cookie for the packet with corresponding
*  IP/TCP headers, *iph* and *th*, on the listening socket in *sk*.
*
*  *iph* points to the start of the IPv4 or IPv6 header, while
*  *iph_len* contains **sizeof**\ (**struct iphdr**) or
*  **sizeof**\ (**struct ipv6hdr**).
*
*  *th* points to the start of the TCP header, while *th_len*
*  contains the length of the TCP header with options (at least
*  **sizeof**\ (**struct tcphdr**)).
*
* Returns
*  On success, lower 32 bits hold the generated SYN cookie in
*  followed by 16 bits which hold the MSS value for that cookie,
*  and the top 16 bits are unused.
*
*  On failure, the returned value is one of the following:
*
*  **-EINVAL** SYN cookie cannot be issued due to error
*
*  **-ENOENT** SYN cookie should not be issued (no SYN flood)
*
*  **-EOPNOTSUPP** kernel configuration
 does not enable SYN cookies
*
*  **-EPROTONOSUPPORT** IP packet version is not 4 or 6
*/
static __s64 (* const bpf_tcp_gen_syncookie)(void *sk, void *iph, __u32 iph_len, struct tcphdr *th, __u32 th_len) =
(void *) 110;

/*
* bpf_skb_output
*
```

```
*  Write raw *data* blob into a special BPF perf event held by
*  *map* of type **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. This perf
*  event must have the following attributes: **PERF_SAMPLE_RAW**
*  as **sample_type**, **PERF_TYPE_SOFTWARE** as **type**, and
*  **PERF_COUNT_SW_BPF_OUTPUT** as **config**.
*
*  The *flags* are used to indicate the index in *map* for which
*  the value must be put, masked with **BPF_F_INDEX_MASK**.
*  Alternatively, *flags* can be set to **BPF_F_CURRENT_CPU**
*  to indicate that the index of the current CPU core should be
*  used.
*
*  The value to write, of *size*, is passed through eBPF stack and
*  pointed by *data*.
*
*  *ctx* is a pointer to in-kernel struct sk_buff.
*
*  This helper is similar to
 **bpf_perf_event_output**\ () but
*  restricted to raw_tracepoint bpf programs.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_output)(void *ctx, void *map, __u64 flags, void *data, __u64 size) = (void *) 111;

/*
* bpf_probe_read_user
*
*  Safely attempt to read *size* bytes from user space address
*  *unsafe_ptr* and store the data in *dst*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_probe_read_user)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 112;

/*
* bpf_probe_read_kernel
*
*  Safely attempt to read *size* bytes from kernel space address
*  *unsafe_ptr* and store the data in *dst*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_probe_read_kernel)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 113;
```

```
/*
* bpf_probe_read_user_str
*
*  Copy a NUL terminated string from an unsafe
 user address
*  *unsafe_ptr* to *dst*. The *size* should include the
*  terminating NUL byte. In case the string length is smaller than
*  *size*, the target is not padded with further NUL bytes. If the
*  string length is larger than *size*, just *size*-1 bytes are
*  copied and the last byte is set to NUL.
*
*  On success, returns the number of bytes that were written,
*  including the terminal NUL. This makes this helper useful in
*  tracing programs for reading strings, and more importantly to
*  get its length at runtime. See the following snippet:
*
*  ::
*
*   SEC("kprobe/sys_open")
*   void bpf_sys_open(struct pt_regs *ctx)
*   {
*           char buf[PATHLEN]; // PATHLEN is defined to 256
*           int res = bpf_probe_read_user_str(buf, sizeof(buf),
*                                   ctx->di);
*
*    // Consume buf, for example push it to
*    // userspace via bpf_perf_event_output(); we
*    // can use res (the string length) as event
*    // size,
 after checking its boundaries.
*   }
*
*  In comparison, using **bpf_probe_read_user**\ () helper here
*  instead to read the string would require to estimate the length
*  at compile time, and would often result in copying more memory
*  than necessary.
*
*  Another useful use case is when parsing individual process
*  arguments or individual environment variables navigating
*  *current*\ **->mm->arg_start** and *current*\
*  **->mm->env_start**: using this helper and the return value,
*  one can quickly iterate at the right offset of the memory area.
*
* Returns
*  On success, the strictly positive length of the output string,
*  including the trailing NUL character. On error, a negative
*  value.
*/
```

```
static long (* const bpf_probe_read_user_str)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 114;

/*
* bpf_probe_read_kernel_str
*
*  Copy a NUL terminated string from an unsafe kernel address *unsafe_ptr*
*  to *dst*. Same semantics as with **bpf_probe_read_user_str**\
 () apply.
*
* Returns
*  On success, the strictly positive length of the string, including
*  the trailing NUL character. On error, a negative value.
*/
static long (* const bpf_probe_read_kernel_str)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 115;

/*
* bpf_tcp_send_ack
*
*  Send out a tcp-ack. *tp* is the in-kernel struct **tcp_sock**.
*  *rcv_nxt* is the ack_seq to be sent out.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_tcp_send_ack)(void *tp, __u32 rcv_nxt) = (void *) 116;

/*
* bpf_send_signal_thread
*
*  Send signal *sig* to the thread corresponding to the current task.
*
* Returns
*  0 on success or successfully queued.
*
*  **-EBUSY** if work queue under nmi is full.
*
*  **-EINVAL** if *sig* is invalid.
*
*  **-EPERM** if no permission to send the *sig*.
*
*  **-EAGAIN** if bpf program can try again.
*/
static long (* const bpf_send_signal_thread)(__u32 sig) = (void
 *) 117;

/*
* bpf_jiffies64
*
```

```
*  Obtain the 64bit jiffies
*
* Returns
*  The 64 bit jiffies
*/
static __u64 (* const bpf_jiffies64)(void) = (void *) 118;

/*
* bpf_read_branch_records
*
*  For an eBPF program attached to a perf event, retrieve the
*  branch records (**struct perf_branch_entry**) associated to *ctx*
*  and store it in the buffer pointed by *buf* up to size
*  *size* bytes.
*
* Returns
*  On success, number of bytes written to *buf*. On error, a
*  negative value.
*
*  The *flags* can be set to **BPF_F_GET_BRANCH_RECORDS_SIZE** to
*  instead return the number of bytes required to store all the
*  branch entries. If this flag is set, *buf* may be NULL.
*
*  **-EINVAL** if arguments invalid or **size** not a multiple
*  of **sizeof**\ (**struct perf_branch_entry**\ ).
*
*  **-ENOENT** if architecture does not support branch records.
*/
static long (* const bpf_read_branch_records)(struct bpf_perf_event_data *ctx, void *buf, __u32 size, __u64
 flags) = (void *) 119;

/*
* bpf_get_ns_current_pid_tgid
*
*  Returns 0 on success, values for *pid* and *tgid* as seen from the current
*  *namespace* will be returned in *nsdata*.
*
* Returns
*  0 on success, or one of the following in case of failure:
*
*  **-EINVAL** if dev and inum supplied don't match dev_t and inode number
*  with nsfs of current task, or if dev conversion to dev_t lost high bits.
*
*  **-ENOENT** if pidns does not exists for the current task.
*/
static long (* const bpf_get_ns_current_pid_tgid)(__u64 dev, __u64 ino, struct bpf_pidns_info *nsdata, __u32 size)
= (void *) 120;
```

```
/*
* bpf_xdp_output
*
*  Write raw *data* blob into a special BPF perf event held by
*  *map* of type **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. This perf
*  event must have the following attributes: **PERF_SAMPLE_RAW**
*  as **sample_type**, **PERF_TYPE_SOFTWARE** as **type**, and
*  **PERF_COUNT_SW_BPF_OUTPUT** as **config**.
*
*  The *flags* are used to indicate the index
 in *map* for which
*  the value must be put, masked with **BPF_F_INDEX_MASK**.
*  Alternatively, *flags* can be set to **BPF_F_CURRENT_CPU**
*  to indicate that the index of the current CPU core should be
*  used.
*
*  The value to write, of *size*, is passed through eBPF stack and
*  pointed by *data*.
*
*  *ctx* is a pointer to in-kernel struct xdp_buff.
*
*  This helper is similar to **bpf_perf_eventoutput**\ () but
*  restricted to raw_tracepoint bpf programs.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_output)(void *ctx, void *map, __u64 flags, void *data, __u64 size) = (void *) 121;

/*
* bpf_get_netns_cookie
*
*  Retrieve the cookie (generated by the kernel) of the network
*  namespace the input *ctx* is associated with. The network
*  namespace cookie remains stable for its lifetime and provides
*  a global identifier that can be assumed unique. If *ctx* is
*  NULL, then the helper returns the cookie
 for the initial
*  network namespace. The cookie itself is very similar to that
*  of **bpf_get_socket_cookie**\ () helper, but for network
*  namespaces instead of sockets.
*
* Returns
*  A 8-byte long opaque number.
*/
static __u64 (* const bpf_get_netns_cookie)(void *ctx) = (void *) 122;

/*
```

```
* bpf_get_current_ancestor_cgroup_id
*
*  Return id of cgroup v2 that is ancestor of the cgroup associated
*  with the current task at the *ancestor_level*. The root cgroup
*  is at *ancestor_level* zero and each step down the hierarchy
*  increments the level. If *ancestor_level* == level of cgroup
*  associated with the current task, then return value will be the
*  same as that of **bpf_get_current_cgroup_id**\ ().
*
*  The helper is useful to implement policies based on cgroups
*  that are upper in hierarchy than immediate cgroup associated
*  with the current task.
*
*  The format of returned id and helper limitations are same as in
*  **bpf_get_current_cgroup_id**\
 ().
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_get_current_ancestor_cgroup_id)(int ancestor_level) = (void *) 123;

/*
* bpf_sk_assign
*
*  Helper is overloaded depending on BPF program type. This
*  description applies to **BPF_PROG_TYPE_SCHED_CLS** and
*  **BPF_PROG_TYPE_SCHED_ACT** programs.
*
*  Assign the *sk* to the *skb*. When combined with appropriate
*  routing configuration to receive the packet towards the socket,
*  will cause *skb* to be delivered to the specified socket.
*  Subsequent redirection of *skb* via  **bpf_redirect**\ (),
*  **bpf_clone_redirect**\ () or other methods outside of BPF may
*  interfere with successful delivery to the socket.
*
*  This operation is only valid from TC ingress path.
*
*  The *flags* argument must be zero.
*
* Returns
*  0 on success, or a negative error in case of failure:
*
*  **-EINVAL** if specified *flags* are not supported.
*
*  **-ENOENT**
 if the socket is unavailable for assignment.
*
```

```
*  **-ENETUNREACH** if the socket is unreachable (wrong netns).
*
*  **-EOPNOTSUPP** if the operation is not supported, for example
*  a call from outside of TC ingress.
*/
static long (* const bpf_sk_assign)(void *ctx, void *sk, __u64 flags) = (void *) 124;

/*
* bpf_ktime_get_boot_ns
*
*  Return the time elapsed since system boot, in nanoseconds.
*  Does include the time the system was suspended.
*  See: **clock_gettime**\ (**CLOCK_BOOTTIME**)
*
* Returns
*  Current *ktime*.
*/
static __u64 (* const bpf_ktime_get_boot_ns)(void) = (void *) 125;

/*
* bpf_seq_printf
*
*  **bpf_seq_printf**\ () uses seq_file **seq_printf**\ () to print
*  out the format string.
*  The *m* represents the seq_file. The *fmt* and *fmt_size* are for
*  the format string itself. The *data* and *data_len* are format string
*  arguments. The *data* are a **u64** array and corresponding format string
*  values are stored in the array. For strings
 and pointers where pointees
*  are accessed, only the pointer values are stored in the *data* array.
*  The *data_len* is the size of *data* in bytes - must be a multiple of 8.
*
*  Formats **%s**, **%p{i,I}{4,6}** requires to read kernel memory.
*  Reading kernel memory may fail due to either invalid address or
*  valid address but requiring a major memory fault. If reading kernel memory
*  fails, the string for **%s** will be an empty string, and the ip
*  address for **%p{i,I}{4,6}** will be 0. Not returning error to
*  bpf program is consistent with what **bpf_trace_printk**\ () does for now.
*
* Returns
*  0 on success, or a negative error in case of failure:
*
*  **-EBUSY** if per-CPU memory copy buffer is busy, can try again
*  by returning 1 from bpf program.
*
*  **-EINVAL** if arguments are invalid, or if *fmt* is invalid/unsupported.
*
*  **-E2BIG** if *fmt* contains too many format specifiers.
```

```
*
*  **-EOVERFLOW** if an overflow happened: The same
 object will be tried again.
*/
static long (* const bpf_seq_printf)(struct seq_file *m, const char *fmt, __u32 fmt_size, const void *data, __u32
data_len) = (void *) 126;

/*
* bpf_seq_write
*
*  **bpf_seq_write**\ () uses seq_file **seq_write**\ () to write the data.
*  The *m* represents the seq_file. The *data* and *len* represent the
*  data to write in bytes.
*
* Returns
*  0 on success, or a negative error in case of failure:
*
*  **-EOVERFLOW** if an overflow happened: The same object will be tried again.
*/
static long (* const bpf_seq_write)(struct seq_file *m, const void *data, __u32 len) = (void *) 127;

/*
* bpf_sk_cgroup_id
*
*  Return the cgroup v2 id of the socket *sk*.
*
*  *sk* must be a non-**NULL** pointer to a socket, e.g. one
*  returned from **bpf_sk_lookup_xxx**\ (),
*  **bpf_sk_fullsock**\ (), etc. The format of returned id is
*  same as in **bpf_skb_cgroup_id**\ ().
*
*  This helper is available only if the kernel was compiled with
*  the
 **CONFIG_SOCK_CGROUP_DATA** configuration option.
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_sk_cgroup_id)(void *sk) = (void *) 128;

/*
* bpf_sk_ancestor_cgroup_id
*
*  Return id of cgroup v2 that is ancestor of cgroup associated
*  with the *sk* at the *ancestor_level*.  The root cgroup is at
*  *ancestor_level* zero and each step down the hierarchy
*  increments the level. If *ancestor_level* == level of cgroup
*  associated with *sk*, then return value will be same as that
```

```
*  of **bpf_sk_cgroup_id**\ ().
*
*  The helper is useful to implement policies based on cgroups
*  that are upper in hierarchy than immediate cgroup associated
*  with *sk*.
*
*  The format of returned id and helper limitations are same as in
*  **bpf_sk_cgroup_id**\ ().
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_sk_ancestor_cgroup_id)(void *sk, int ancestor_level)
 = (void *) 129;

/*
* bpf_ringbuf_output
*
*  Copy *size* bytes from *data* into a ring buffer *ringbuf*.
*  If **BPF_RB_NO_WAKEUP** is specified in *flags*, no notification
*  of new data availability is sent.
*  If **BPF_RB_FORCE_WAKEUP** is specified in *flags*, notification
*  of new data availability is sent unconditionally.
*  If **0** is specified in *flags*, an adaptive notification
*  of new data availability is sent.
*
*  An adaptive notification is a notification sent whenever the user-space
*  process has caught up and consumed all available payloads. In case the user-space
*  process is still processing a previous payload, then no notification is needed
*  as it will process the newly added payload automatically.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_ringbuf_output)(void *ringbuf, void *data, __u64 size, __u64 flags) = (void *) 130;

/*
* bpf_ringbuf_reserve
*
*  Reserve *size* bytes of payload
 in a ring buffer *ringbuf*.
*  *flags* must be 0.
*
* Returns
*  Valid pointer with *size* bytes of memory available; NULL,
*  otherwise.
*/
static void *(* const bpf_ringbuf_reserve)(void *ringbuf, __u64 size, __u64 flags) = (void *) 131;
```

```
/*
* bpf_ringbuf_submit
*
*  Submit reserved ring buffer sample, pointed to by *data*.
*  If **BPF_RB_NO_WAKEUP** is specified in *flags*, no notification
*  of new data availability is sent.
*  If **BPF_RB_FORCE_WAKEUP** is specified in *flags*, notification
*  of new data availability is sent unconditionally.
*  If **0** is specified in *flags*, an adaptive notification
*  of new data availability is sent.
*
*  See 'bpf_ringbuf_output()' for the definition of adaptive notification.
*
* Returns
*  Nothing. Always succeeds.
*/
static void (* const bpf_ringbuf_submit)(void *data, __u64 flags) = (void *) 132;

/*
* bpf_ringbuf_discard
*
*  Discard reserved ring buffer sample, pointed to by *data*.
*  If **BPF_RB_NO_WAKEUP**
 is specified in *flags*, no notification
*  of new data availability is sent.
*  If **BPF_RB_FORCE_WAKEUP** is specified in *flags*, notification
*  of new data availability is sent unconditionally.
*  If **0** is specified in *flags*, an adaptive notification
*  of new data availability is sent.
*
*  See 'bpf_ringbuf_output()' for the definition of adaptive notification.
*
* Returns
*  Nothing. Always succeeds.
*/
static void (* const bpf_ringbuf_discard)(void *data, __u64 flags) = (void *) 133;

/*
* bpf_ringbuf_query
*
*  Query various characteristics of provided ring buffer. What
*  exactly is queries is determined by *flags*:
*
*  * **BPF_RB_AVAIL_DATA**: Amount of data not yet consumed.
*  * **BPF_RB_RING_SIZE**: The size of ring buffer.
*  * **BPF_RB_CONS_POS**: Consumer position (can wrap around).
*  * **BPF_RB_PROD_POS**: Producer(s) position (can wrap around).
```

```
*
*  Data returned is just a momentary snapshot of actual values
*  and could be inaccurate,
 so this facility should be used to
*  power heuristics and for reporting, not to make 100% correct
*  calculation.
*
* Returns
*  Requested value, or 0, if *flags* are not recognized.
*/
static __u64 (* const bpf_ringbuf_query)(void *ringbuf, __u64 flags) = (void *) 134;

/*
* bpf_csum_level
*
*  Change the skbs checksum level by one layer up or down, or
*  reset it entirely to none in order to have the stack perform
*  checksum validation. The level is applicable to the following
*  protocols: TCP, UDP, GRE, SCTP, FCOE. For example, a decap of
*  | ETH | IP | UDP | GUE | IP | TCP | into | ETH | IP | TCP |
*  through **bpf_skb_adjust_room**\ () helper with passing in
*  **BPF_F_ADJ_ROOM_NO_CSUM_RESET** flag would require one call
*  to **bpf_csum_level**\ () with **BPF_CSUM_LEVEL_DEC** since
*  the UDP header is removed. Similarly, an encap of the latter
*  into the former could be accompanied by a helper call to
*  **bpf_csum_level**\ () with **BPF_CSUM_LEVEL_INC**
 if the
*  skb is still intended to be processed in higher layers of the
*  stack instead of just egressing at tc.
*
*  There are three supported level settings at this time:
*
*  * **BPF_CSUM_LEVEL_INC**: Increases skb->csum_level for skbs
*    with CHECKSUM_UNNECESSARY.
*  * **BPF_CSUM_LEVEL_DEC**: Decreases skb->csum_level for skbs
*    with CHECKSUM_UNNECESSARY.
*  * **BPF_CSUM_LEVEL_RESET**: Resets skb->csum_level to 0 and
*    sets CHECKSUM_NONE to force checksum validation by the stack.
*  * **BPF_CSUM_LEVEL_QUERY**: No-op, returns the current
*    skb->csum_level.
*
* Returns
*  0 on success, or a negative error in case of failure. In the
*  case of **BPF_CSUM_LEVEL_QUERY**, the current skb->csum_level
*  is returned or the error code -EACCES in case the skb is not
*  subject to CHECKSUM_UNNECESSARY.
*/
static long (* const bpf_csum_level)(struct __sk_buff *skb, __u64 level) = (void *) 135;
```

```
/*
* bpf_skc_to_tcp6_sock
*
*  Dynamically cast a *sk* pointer to
 a *tcp6_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct tcp6_sock *(* const bpf_skc_to_tcp6_sock)(void *sk) = (void *) 136;

/*
* bpf_skc_to_tcp_sock
*
*  Dynamically cast a *sk* pointer to a *tcp_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct tcp_sock *(* const bpf_skc_to_tcp_sock)(void *sk) = (void *) 137;

/*
* bpf_skc_to_tcp_timewait_sock
*
*  Dynamically cast a *sk* pointer to a *tcp_timewait_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct tcp_timewait_sock *(* const bpf_skc_to_tcp_timewait_sock)(void *sk) = (void *) 138;

/*
* bpf_skc_to_tcp_request_sock
*
*  Dynamically cast a *sk* pointer to a *tcp_request_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct tcp_request_sock *(* const bpf_skc_to_tcp_request_sock)(void *sk) = (void *) 139;

/*
* bpf_skc_to_udp6_sock
 *
*  Dynamically cast a *sk* pointer to a *udp6_sock* pointer.
*
* Returns
```

```
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct udp6_sock *(* const bpf_skc_to_udp6_sock)(void *sk) = (void *) 140;

/*
* bpf_get_task_stack
*
*  Return a user or a kernel stack in bpf program provided buffer.
*  Note: the user stack will only be populated if the *task* is
*  the current task; all other tasks will return -EOPNOTSUPP.
*  To achieve this, the helper needs *task*, which is a valid
*  pointer to **struct task_struct**. To store the stacktrace, the
*  bpf program provides *buf* with a nonnegative *size*.
*
*  The last argument, *flags*, holds the number of stack frames to
*  skip (from 0 to 255), masked with
*  **BPF_F_SKIP_FIELD_MASK**. The next bits can be used to set
*  the following flags:
*
*  **BPF_F_USER_STACK**
*   Collect a user space stack instead of a kernel stack.
*   The *task* must be the current task.
*  **BPF_F_USER_BUILD_ID**
*   Collect
 buildid+offset instead of ips for user stack,
*   only valid if **BPF_F_USER_STACK** is also specified.
*
*  **bpf_get_task_stack**\ () can collect up to
*  **PERF_MAX_STACK_DEPTH** both kernel and user frames, subject
*  to sufficient large buffer size. Note that
*  this limit can be controlled with the **sysctl** program, and
*  that it should be manually increased in order to profile long
*  user stacks (such as stacks for Java programs). To do so, use:
*
*  ::
*
*   # sysctl kernel.perf_event_max_stack=<new value>
*
* Returns
*  The non-negative copied *buf* length equal to or less than
*  *size* on success, or a negative error in case of failure.
*/
static long (* const bpf_get_task_stack)(struct task_struct *task, void *buf, __u32 size, __u64 flags) = (void *) 141;

/*
* bpf_load_hdr_opt
*
*  Load header option.  Support reading a particular TCP header
```

```
*  option for bpf program (**BPF_PROG_TYPE_SOCK_OPS**).
*
*  If *flags* is 0, it will search the option from
 the
*  *skops*\ **->skb_data**.  The comment in **struct bpf_sock_ops**
*  has details on what skb_data contains under different
*  *skops*\ **->op**.
*
*  The first byte of the *searchby_res* specifies the
*  kind that it wants to search.
*
*  If the searching kind is an experimental kind
*  (i.e. 253 or 254 according to RFC6994).  It also
*  needs to specify the "magic" which is either
*  2 bytes or 4 bytes.  It then also needs to
*  specify the size of the magic by using
*  the 2nd byte which is "kind-length" of a TCP
*  header option and the "kind-length" also
*  includes the first 2 bytes "kind" and "kind-length"
*  itself as a normal TCP header option also does.
*
*  For example, to search experimental kind 254 with
*  2 byte magic 0xeB9F, the searchby_res should be
*  [ 254, 4, 0xeB, 0x9F, 0, 0, .... 0 ].
*
*  To search for the standard window scale option (3),
*  the *searchby_res* should be [ 3, 0, 0, .... 0 ].
*  Note, kind-length must be 0 for regular
 option.
*
*  Searching for No-Op (0) and End-of-Option-List (1) are
*  not supported.
*
*  *len* must be at least 2 bytes which is the minimal size
*  of a header option.
*
*  Supported flags:
*
*  * **BPF_LOAD_HDR_OPT_TCP_SYN** to search from the
*    saved_syn packet or the just-received syn packet.
*
*
* Returns
*  > 0 when found, the header option is copied to *searchby_res*.
*  The return value is the total length copied. On failure, a
*  negative error code is returned:
*
*  **-EINVAL** if a parameter is invalid.
```

```
*
*  **-ENOMSG** if the option is not found.
*
*  **-ENOENT** if no syn packet is available when
*  **BPF_LOAD_HDR_OPT_TCP_SYN** is used.
*
*  **-ENOSPC** if there is not enough space.  Only *len* number of
*  bytes are copied.
*
*  **-EFAULT** on failure to parse the header options in the
*  packet.
*
*  **-EPERM** if the helper cannot be used under the current
*  *skops*\ **->op**.
*/
static long (* const bpf_load_hdr_opt)(struct bpf_sock_ops
 *skops, void *searchby_res, __u32 len, __u64 flags) = (void *) 142;

/*
* bpf_store_hdr_opt
*
*  Store header option.  The data will be copied
*  from buffer *from* with length *len* to the TCP header.
*
*  The buffer *from* should have the whole option that
*  includes the kind, kind-length, and the actual
*  option data.  The *len* must be at least kind-length
*  long.  The kind-length does not have to be 4 byte
*  aligned.  The kernel will take care of the padding
*  and setting the 4 bytes aligned value to th->doff.
*
*  This helper will check for duplicated option
*  by searching the same option in the outgoing skb.
*
*  This helper can only be called during
*  **BPF_SOCK_OPS_WRITE_HDR_OPT_CB**.
*
*
* Returns
*  0 on success, or negative error in case of failure:
*
*  **-EINVAL** If param is invalid.
*
*  **-ENOSPC** if there is not enough space in the header.
*  Nothing has been written
*
*  **-EEXIST** if the option already exists.
*
```

```
*  **-EFAULT**
 on failure to parse the existing header options.
*
*  **-EPERM** if the helper cannot be used under the current
*  *skops*\ **->op**.
*/
static long (* const bpf_store_hdr_opt)(struct bpf_sock_ops *skops, const void *from, __u32 len, __u64 flags) =
(void *) 143;

/*
* bpf_reserve_hdr_opt
*
*  Reserve *len* bytes for the bpf header option.  The
*  space will be used by **bpf_store_hdr_opt**\ () later in
*  **BPF_SOCK_OPS_WRITE_HDR_OPT_CB**.
*
*  If **bpf_reserve_hdr_opt**\ () is called multiple times,
*  the total number of bytes will be reserved.
*
*  This helper can only be called during
*  **BPF_SOCK_OPS_HDR_OPT_LEN_CB**.
*
*
* Returns
*  0 on success, or negative error in case of failure:
*
*  **-EINVAL** if a parameter is invalid.
*
*  **-ENOSPC** if there is not enough space in the header.
*
*  **-EPERM** if the helper cannot be used under the current
*  *skops*\ **->op**.
*/
static long (* const bpf_reserve_hdr_opt)(struct bpf_sock_ops *skops,
 __u32 len, __u64 flags) = (void *) 144;

/*
* bpf_inode_storage_get
*
*  Get a bpf_local_storage from an *inode*.
*
*  Logically, it could be thought of as getting the value from
*  a *map* with *inode* as the **key**.  From this
*  perspective,  the usage is not much different from
*  **bpf_map_lookup_elem**\ (*map*, **&**\ *inode*) except this
*  helper enforces the key must be an inode and the map must also
*  be a **BPF_MAP_TYPE_INODE_STORAGE**.
*
```

```
*  Underneath, the value is stored locally at *inode* instead of
*  the *map*.  The *map* is used as the bpf-local-storage
*  "type". The bpf-local-storage "type" (i.e. the *map*) is
*  searched against all bpf_local_storage residing at *inode*.
*
*  An optional *flags* (**BPF_LOCAL_STORAGE_GET_F_CREATE**) can be
*  used such that a new bpf_local_storage will be
*  created if one does not exist.  *value* can be used
*  together with **BPF_LOCAL_STORAGE_GET_F_CREATE** to specify
*  the initial value of a bpf_local_storage.
  If *value* is
*  **NULL**, the new bpf_local_storage will be zero initialized.
*
* Returns
*  A bpf_local_storage pointer is returned on success.
*
*  **NULL** if not found or there was an error in adding
*  a new bpf_local_storage.
*/
static void *(* const bpf_inode_storage_get)(void *map, void *inode, void *value, __u64 flags) = (void *) 145;

/*
* bpf_inode_storage_delete
*
*  Delete a bpf_local_storage from an *inode*.
*
* Returns
*  0 on success.
*
*  **-ENOENT** if the bpf_local_storage cannot be found.
*/
static int (* const bpf_inode_storage_delete)(void *map, void *inode) = (void *) 146;

/*
* bpf_d_path
*
*  Return full path for given **struct path** object, which
*  needs to be the kernel BTF *path* object. The path is
*  returned in the provided buffer *buf* of size *sz* and
*  is zero terminated.
*
*
* Returns
*  On success, the strictly positive length of the string,
*  including the trailing NUL character. On error, a negative
*  value.
 */
static long (* const bpf_d_path)(struct path *path, char *buf, __u32 sz) = (void *) 147;
```

```
/*
* bpf_copy_from_user
*
*  Read *size* bytes from user space address *user_ptr* and store
*  the data in *dst*. This is a wrapper of **copy_from_user**\ ().
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_copy_from_user)(void *dst, __u32 size, const void *user_ptr) = (void *) 148;

/*
* bpf_snprintf_btf
*
*  Use BTF to store a string representation of *ptr*->ptr in *str*,
*  using *ptr*->type_id.  This value should specify the type
*  that *ptr*->ptr points to. LLVM __builtin_btf_type_id(type, 1)
*  can be used to look up vmlinux BTF type ids. Traversing the
*  data structure using BTF, the type information and values are
*  stored in the first *str_size* - 1 bytes of *str*.  Safe copy of
*  the pointer data is carried out to avoid kernel crashes during
*  operation.  Smaller types can use string space on the stack;
*  larger
 programs can use map data to store the string
*  representation.
*
*  The string can be subsequently shared with userspace via
*  bpf_perf_event_output() or ring buffer interfaces.
*  bpf_trace_printk() is to be avoided as it places too small
*  a limit on string size to be useful.
*
*  *flags* is a combination of
*
*  **BTF_F_COMPACT**
*   no formatting around type information
*  **BTF_F_NONAME**
*   no struct/union member names/types
*  **BTF_F_PTR_RAW**
*   show raw (unobfuscated) pointer values;
*   equivalent to printk specifier %px.
*  **BTF_F_ZERO**
*   show zero-valued struct/union members; they
*   are not displayed by default
*
*
* Returns
*  The number of bytes that were written (or would have been
```

* written if output had to be truncated due to string size),
* or a negative error in cases of failure.
*/
static long (* const bpf_snprintf_btf)(char *str, __u32 str_size, struct btf_ptr *ptr, __u32 btf_ptr_size, __u64 flags) = (void *) 149;

/*
 * bpf_seq_printf_btf
*
* Use BTF to write to seq_write a string representation of
* *ptr*->ptr, using *ptr*->type_id as per bpf_snprintf_btf().
* *flags* are identical to those used for bpf_snprintf_btf.
*
* Returns
* 0 on success or a negative error in case of failure.
*/
static long (* const bpf_seq_printf_btf)(struct seq_file *m, struct btf_ptr *ptr, __u32 ptr_size, __u64 flags) = (void *) 150;

/*
* bpf_skb_cgroup_classid
*
* See **bpf_get_cgroup_classid**\ () for the main description.
* This helper differs from **bpf_get_cgroup_classid**\ () in that
* the cgroup v1 net_cls class is retrieved only from the *skb*'s
* associated socket instead of the current process.
*
* Returns
* The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_skb_cgroup_classid)(struct __sk_buff *skb) = (void *) 151;

/*
* bpf_redirect_neigh
*
* Redirect the packet to another net device of index *ifindex*
* and fill in L2 addresses from neighboring
 subsystem. This helper
* is somewhat similar to **bpf_redirect**\ (), except that it
* populates L2 addresses as well, meaning, internally, the helper
* relies on the neighbor lookup for the L2 address of the nexthop.
*
* The helper will perform a FIB lookup based on the skb's
* networking header to get the address of the next hop, unless
* this is supplied by the caller in the *params* argument. The
* *plen* argument indicates the len of *params* and should be set
* to 0 if *params* is NULL.
*

```
*  The *flags* argument is reserved and must be 0. The helper is
*  currently only supported for tc BPF program types, and enabled
*  for IPv4 and IPv6 protocols.
*
* Returns
*  The helper returns **TC_ACT_REDIRECT** on success or
*  **TC_ACT_SHOT** on error.
*/
static long (* const bpf_redirect_neigh)(__u32 ifindex, struct bpf_redir_neigh *params, int plen, __u64 flags) =
(void *) 152;

/*
* bpf_per_cpu_ptr
*
*  Take a pointer to a percpu ksym, *percpu_ptr*,
 and return a
*  pointer to the percpu kernel variable on *cpu*. A ksym is an
*  extern variable decorated with '__ksym'. For ksym, there is a
*  global var (either static or global) defined of the same name
*  in the kernel. The ksym is percpu if the global var is percpu.
*  The returned pointer points to the global percpu var on *cpu*.
*
*  bpf_per_cpu_ptr() has the same semantic as per_cpu_ptr() in the
*  kernel, except that bpf_per_cpu_ptr() may return NULL. This
*  happens if *cpu* is larger than nr_cpu_ids. The caller of
*  bpf_per_cpu_ptr() must check the returned value.
*
* Returns
*  A pointer pointing to the kernel percpu variable on *cpu*, or
*  NULL, if *cpu* is invalid.
*/
static void *(* const bpf_per_cpu_ptr)(const void *percpu_ptr, __u32 cpu) = (void *) 153;

/*
* bpf_this_cpu_ptr
*
*  Take a pointer to a percpu ksym, *percpu_ptr*, and return a
*  pointer to the percpu kernel variable on this cpu. See the
*  description of 'ksym' in **bpf_per_cpu_ptr**\
 ().
*
*  bpf_this_cpu_ptr() has the same semantic as this_cpu_ptr() in
*  the kernel. Different from **bpf_per_cpu_ptr**\ (), it would
*  never return NULL.
*
* Returns
*  A pointer pointing to the kernel percpu variable on this cpu.
*/
```

```
static void *(* const bpf_this_cpu_ptr)(const void *percpu_ptr) = (void *) 154;

/*
* bpf_redirect_peer
*
*  Redirect the packet to another net device of index *ifindex*.
*  This helper is somewhat similar to **bpf_redirect**\ (), except
*  that the redirection happens to the *ifindex*' peer device and
*  the netns switch takes place from ingress to ingress without
*  going through the CPU's backlog queue.
*
*  The *flags* argument is reserved and must be 0. The helper is
*  currently only supported for tc BPF program types at the
*  ingress hook and for veth and netkit target device types. The
*  peer device must reside in a different network namespace.
*
* Returns
*  The helper returns **TC_ACT_REDIRECT** on success or
*
  **TC_ACT_SHOT** on error.
*/
static long (* const bpf_redirect_peer)(__u32 ifindex, __u64 flags) = (void *) 155;

/*
* bpf_task_storage_get
*
*  Get a bpf_local_storage from the *task*.
*
*  Logically, it could be thought of as getting the value from
*  a *map* with *task* as the **key**.  From this
*  perspective,  the usage is not much different from
*  **bpf_map_lookup_elem**\ (*map*, **&**\ *task*) except this
*  helper enforces the key must be a task_struct and the map must also
*  be a **BPF_MAP_TYPE_TASK_STORAGE**.
*
*  Underneath, the value is stored locally at *task* instead of
*  the *map*.  The *map* is used as the bpf-local-storage
*  "type". The bpf-local-storage "type" (i.e. the *map*) is
*  searched against all bpf_local_storage residing at *task*.
*
*  An optional *flags* (**BPF_LOCAL_STORAGE_GET_F_CREATE**) can be
*  used such that a new bpf_local_storage will be
*  created if one does not exist.  *value* can be used
*  together with **BPF_LOCAL_STORAGE_GET_F_CREATE**
 to specify
*  the initial value of a bpf_local_storage.  If *value* is
*  **NULL**, the new bpf_local_storage will be zero initialized.
*
```

```
* Returns
*  A bpf_local_storage pointer is returned on success.
*
*  **NULL** if not found or there was an error in adding
*  a new bpf_local_storage.
*/
static void *(* const bpf_task_storage_get)(void *map, struct task_struct *task, void *value, __u64 flags) = (void *)
156;

/*
* bpf_task_storage_delete
*
*  Delete a bpf_local_storage from a *task*.
*
* Returns
*  0 on success.
*
*  **-ENOENT** if the bpf_local_storage cannot be found.
*/
static long (* const bpf_task_storage_delete)(void *map, struct task_struct *task) = (void *) 157;

/*
* bpf_get_current_task_btf
*
*  Return a BTF pointer to the "current" task.
*  This pointer can also be used in helpers that accept an
*  *ARG_PTR_TO_BTF_ID* of type *task_struct*.
*
* Returns
*  Pointer to the current task.
*/
static struct task_struct *(* const
 bpf_get_current_task_btf)(void) = (void *) 158;

/*
* bpf_bprm_opts_set
*
*  Set or clear certain options on *bprm*:
*
*  **BPF_F_BPRM_SECUREEXEC** Set the secureexec bit
*  which sets the **AT_SECURE** auxv for glibc. The bit
*  is cleared if the flag is not specified.
*
* Returns
*  **-EINVAL** if invalid *flags* are passed, zero otherwise.
*/
static long (* const bpf_bprm_opts_set)(struct linux_binprm *bprm, __u64 flags) = (void *) 159;
```

```
/*
* bpf_ktime_get_coarse_ns
*
*  Return a coarse-grained version of the time elapsed since
*  system boot, in nanoseconds. Does not include time the system
*  was suspended.
*
*  See: **clock_gettime**\ (**CLOCK_MONOTONIC_COARSE**)
*
* Returns
*  Current *ktime*.
*/
static __u64 (* const bpf_ktime_get_coarse_ns)(void) = (void *) 160;

/*
* bpf_ima_inode_hash
*
*  Returns the stored IMA hash of the *inode* (if it's available).
*  If the hash is larger than *size*, then only *size*
*  bytes will be copied to *dst*
*
* Returns
 *  The **hash_algo** is returned on success,
*  **-EOPNOTSUP** if IMA is disabled or **-EINVAL** if
*  invalid arguments are passed.
*/
static long (* const bpf_ima_inode_hash)(struct inode *inode, void *dst, __u32 size) = (void *) 161;

/*
* bpf_sock_from_file
*
*  If the given file represents a socket, returns the associated
*  socket.
*
* Returns
*  A pointer to a struct socket on success or NULL if the file is
*  not a socket.
*/
static struct socket *(* const bpf_sock_from_file)(struct file *file) = (void *) 162;

/*
* bpf_check_mtu
*
*  Check packet size against exceeding MTU of net device (based
*  on *ifindex*).  This helper will likely be used in combination
*  with helpers that adjust/change the packet size.
*
*  The argument *len_diff* can be used for querying with a planned
```

```
*  size change. This allows to check MTU prior to changing packet
*  ctx. Providing a *len_diff* adjustment that is larger than the
*  actual packet size (resulting in negative
 packet size) will in
*  principle not exceed the MTU, which is why it is not considered
*  a failure.  Other BPF helpers are needed for performing the
*  planned size change; therefore the responsibility for catching
*  a negative packet size belongs in those helpers.
*
*  Specifying *ifindex* zero means the MTU check is performed
*  against the current net device.  This is practical if this isn't
*  used prior to redirect.
*
*  On input *mtu_len* must be a valid pointer, else verifier will
*  reject BPF program.  If the value *mtu_len* is initialized to
*  zero then the ctx packet size is use.  When value *mtu_len* is
*  provided as input this specify the L3 length that the MTU check
*  is done against. Remember XDP and TC length operate at L2, but
*  this value is L3 as this correlate to MTU and IP-header tot_len
*  values which are L3 (similar behavior as bpf_fib_lookup).
*
*  The Linux kernel route table can configure MTUs on a more
*  specific per route level,
 which is not provided by this helper.
*  For route level MTU checks use the **bpf_fib_lookup**\ ()
*  helper.
*
*  *ctx* is either **struct xdp_md** for XDP programs or
*  **struct sk_buff** for tc cls_act programs.
*
*  The *flags* argument can be a combination of one or more of the
*  following values:
*
*  **BPF_MTU_CHK_SEGS**
*   This flag will only works for *ctx* **struct sk_buff**.
*   If packet context contains extra packet segment buffers
*   (often knows as GSO skb), then MTU check is harder to
*   check at this point, because in transmit path it is
*   possible for the skb packet to get re-segmented
*   (depending on net device features).  This could still be
*   a MTU violation, so this flag enables performing MTU
*   check against segments, with a different violation
*   return code to tell it apart. Check cannot use len_diff.
*
*  On return *mtu_len* pointer contains the MTU value of the net
*  device.  Remember the net device configured MTU is the
 L3 size,
*  which is returned here and XDP and TC length operate at L2.
```

```
*  Helper take this into account for you, but remember when using
*  MTU value in your BPF-code.
*
*
* Returns
*  * 0 on success, and populate MTU value in *mtu_len* pointer.
*
*  * < 0 if any input argument is invalid (*mtu_len* not updated)
*
*  MTU violations return positive values, but also populate MTU
*  value in *mtu_len* pointer, as this can be needed for
*  implementing PMTU handing:
*
*  * **BPF_MTU_CHK_RET_FRAG_NEEDED**
*  * **BPF_MTU_CHK_RET_SEGS_TOOBIG**
*/
static long (* const bpf_check_mtu)(void *ctx, __u32 ifindex, __u32 *mtu_len, __s32 len_diff, __u64 flags) = (void
*) 163;

/*
* bpf_for_each_map_elem
*
*  For each element in **map**, call **callback_fn** function with
*  **map**, **callback_ctx** and other map-specific parameters.
*  The **callback_fn** should be a static function and
*  the **callback_ctx** should be a pointer to the stack.
*  The **flags** is used to control
 certain aspects of the helper.
*  Currently, the **flags** must be 0.
*
*  The following are a list of supported map types and their
*  respective expected callback signatures:
*
*  BPF_MAP_TYPE_HASH, BPF_MAP_TYPE_PERCPU_HASH,
*  BPF_MAP_TYPE_LRU_HASH, BPF_MAP_TYPE_LRU_PERCPU_HASH,
*  BPF_MAP_TYPE_ARRAY, BPF_MAP_TYPE_PERCPU_ARRAY
*
*  long (\*callback_fn)(struct bpf_map \*map, const void \*key, void \*value, void \*ctx);
*
*  For per_cpu maps, the map_value is the value on the cpu where the
*  bpf_prog is running.
*
*  If **callback_fn** return 0, the helper will continue to the next
*  element. If return value is 1, the helper will skip the rest of
*  elements and return. Other return values are not used now.
*
*
* Returns
```

```
*  The number of traversed map elements for success, **-EINVAL** for
*  invalid **flags**.
*/
static long (* const bpf_for_each_map_elem)(void *map, void *callback_fn, void *callback_ctx, __u64 flags) =
(void *) 164;

/*
* bpf_snprintf
 *
*  Outputs a string into the **str** buffer of size **str_size**
*  based on a format string stored in a read-only map pointed by
*  **fmt**.
*
*  Each format specifier in **fmt** corresponds to one u64 element
*  in the **data** array. For strings and pointers where pointees
*  are accessed, only the pointer values are stored in the *data*
*  array. The *data_len* is the size of *data* in bytes - must be
*  a multiple of 8.
*
*  Formats **%s** and **%p{i,I}{4,6}** require to read kernel
*  memory. Reading kernel memory may fail due to either invalid
*  address or valid address but requiring a major memory fault. If
*  reading kernel memory fails, the string for **%s** will be an
*  empty string, and the ip address for **%p{i,I}{4,6}** will be 0.
*  Not returning error to bpf program is consistent with what
*  **bpf_trace_printk**\ () does for now.
*
*
* Returns
*  The strictly positive length of the formatted string, including
*  the trailing zero character. If
 the return value is greater than
*  **str_size**, **str** contains a truncated string, guaranteed to
*  be zero-terminated except when **str_size** is 0.
*
*  Or **-EBUSY** if the per-CPU memory copy buffer is busy.
*/
static long (* const bpf_snprintf)(char *str, __u32 str_size, const char *fmt, __u64 *data, __u32 data_len) = (void *)
165;

/*
* bpf_sys_bpf
*
*  Execute bpf syscall with given arguments.
*
* Returns
*  A syscall result.
*/
```

```
static long (* const bpf_sys_bpf)(__u32 cmd, void *attr, __u32 attr_size) = (void *) 166;

/*
* bpf_btf_find_by_name_kind
*
*  Find BTF type with given name and kind in vmlinux BTF or in module's BTFs.
*
* Returns
*  Returns btf_id and btf_obj_fd in lower and upper 32 bits.
*/
static long (* const bpf_btf_find_by_name_kind)(char *name, int name_sz, __u32 kind, int flags) = (void *) 167;

/*
* bpf_sys_close
*
*  Execute close syscall for given FD.
*
* Returns
*  A syscall result.
*/
static long (* const bpf_sys_close)(__u32
 fd) = (void *) 168;

/*
* bpf_timer_init
*
*  Initialize the timer.
*  First 4 bits of *flags* specify clockid.
*  Only CLOCK_MONOTONIC, CLOCK_REALTIME, CLOCK_BOOTTIME are allowed.
*  All other bits of *flags* are reserved.
*  The verifier will reject the program if *timer* is not from
*  the same *map*.
*
* Returns
*  0 on success.
*  **-EBUSY** if *timer* is already initialized.
*  **-EINVAL** if invalid *flags* are passed.
*  **-EPERM** if *timer* is in a map that doesn't have any user references.
*  The user space should either hold a file descriptor to a map with timers
*  or pin such map in bpffs. When map is unpinned or file descriptor is
*  closed all timers in the map will be cancelled and freed.
*/
static long (* const bpf_timer_init)(struct bpf_timer *timer, void *map, __u64 flags) = (void *) 169;

/*
* bpf_timer_set_callback
*
*  Configure the timer to call *callback_fn* static function.
```

```
*
* Returns
*  0 on success.
*  **-EINVAL** if *timer* was not
 initialized with bpf_timer_init() earlier.
*  **-EPERM** if *timer* is in a map that doesn't have any user references.
*  The user space should either hold a file descriptor to a map with timers
*  or pin such map in bpffs. When map is unpinned or file descriptor is
*  closed all timers in the map will be cancelled and freed.
*/
static long (* const bpf_timer_set_callback)(struct bpf_timer *timer, void *callback_fn) = (void *) 170;

/*
* bpf_timer_start
*
*  Set timer expiration N nanoseconds from the current time. The
*  configured callback will be invoked in soft irq context on some cpu
*  and will not repeat unless another bpf_timer_start() is made.
*  In such case the next invocation can migrate to a different cpu.
*  Since struct bpf_timer is a field inside map element the map
*  owns the timer. The bpf_timer_set_callback() will increment refcnt
*  of BPF program to make sure that callback_fn code stays valid.
*  When user space reference to a map reaches zero all
 timers
*  in a map are cancelled and corresponding program's refcnts are
*  decremented. This is done to make sure that Ctrl-C of a user
*  process doesn't leave any timers running. If map is pinned in
*  bpffs the callback_fn can re-arm itself indefinitely.
*  bpf_map_update/delete_elem() helpers and user space sys_bpf commands
*  cancel and free the timer in the given map element.
*  The map can contain timers that invoke callback_fn-s from different
*  programs. The same callback_fn can serve different timers from
*  different maps if key/value layout matches across maps.
*  Every bpf_timer_set_callback() can have different callback_fn.
*
*  *flags* can be one of:
*
*  **BPF_F_TIMER_ABS**
*   Start the timer in absolute expire value instead of the
*   default relative one.
*  **BPF_F_TIMER_CPU_PIN**
*   Timer will be pinned to the CPU of the caller.
*
*
* Returns
*  0 on success.
*  **-EINVAL** if *timer* was not initialized with bpf_timer_init() earlier
*  or
```

```
 invalid *flags* are passed.
*/
static long (* const bpf_timer_start)(struct bpf_timer *timer, __u64 nsecs, __u64 flags) = (void *) 171;

/*
* bpf_timer_cancel
*
*  Cancel the timer and wait for callback_fn to finish if it was running.
*
* Returns
*  0 if the timer was not active.
*  1 if the timer was active.
*  **-EINVAL** if *timer* was not initialized with bpf_timer_init() earlier.
*  **-EDEADLK** if callback_fn tried to call bpf_timer_cancel() on its
*  own timer which would have led to a deadlock otherwise.
*/
static long (* const bpf_timer_cancel)(struct bpf_timer *timer) = (void *) 172;

/*
* bpf_get_func_ip
*
*  Get address of the traced function (for tracing and kprobe programs).
*
*  When called for kprobe program attached as uprobe it returns
*  probe address for both entry and return uprobe.
*
*
* Returns
*  Address of the traced function for kprobe.
*  0 for kprobes placed within the function (not at the entry).
*  Address of the probe for uprobe
 and return uprobe.
*/
static __u64 (* const bpf_get_func_ip)(void *ctx) = (void *) 173;

/*
* bpf_get_attach_cookie
*
*  Get bpf_cookie value provided (optionally) during the program
*  attachment. It might be different for each individual
*  attachment, even if BPF program itself is the same.
*  Expects BPF program context *ctx* as a first argument.
*
*  Supported for the following program types:
*    - kprobe/uprobe;
*    - tracepoint;
*    - perf_event.
*
```

```
* Returns
*  Value specified by user at BPF link creation/attachment time
*  or 0, if it was not specified.
*/
static __u64 (* const bpf_get_attach_cookie)(void *ctx) = (void *) 174;

/*
* bpf_task_pt_regs
*
*  Get the struct pt_regs associated with **task**.
*
* Returns
*  A pointer to struct pt_regs.
*/
static long (* const bpf_task_pt_regs)(struct task_struct *task) = (void *) 175;

/*
* bpf_get_branch_snapshot
*
*  Get branch trace from hardware engines like Intel LBR. The
*  hardware engine is stopped
 shortly after the helper is
*  called. Therefore, the user need to filter branch entries
*  based on the actual use case. To capture branch trace
*  before the trigger point of the BPF program, the helper
*  should be called at the beginning of the BPF program.
*
*  The data is stored as struct perf_branch_entry into output
*  buffer *entries*. *size* is the size of *entries* in bytes.
*  *flags* is reserved for now and must be zero.
*
*
* Returns
*  On success, number of bytes written to *buf*. On error, a
*  negative value.
*
*  **-EINVAL** if *flags* is not zero.
*
*  **-ENOENT** if architecture does not support branch records.
*/
static long (* const bpf_get_branch_snapshot)(void *entries, __u32 size, __u64 flags) = (void *) 176;

/*
* bpf_trace_vprintk
*
*  Behaves like **bpf_trace_printk**\ () helper, but takes an array of u64
*  to format and can handle more format args as a result.
*
```

```
*  Arguments are to be used as in **bpf_seq_printf**\ () helper.
*
*
 Returns
*  The number of bytes written to the buffer, or a negative error
*  in case of failure.
*/
static long (* const bpf_trace_vprintk)(const char *fmt, __u32 fmt_size, const void *data, __u32 data_len) = (void
*) 177;

/*
* bpf_skc_to_unix_sock
*
*  Dynamically cast a *sk* pointer to a *unix_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct unix_sock *(* const bpf_skc_to_unix_sock)(void *sk) = (void *) 178;

/*
* bpf_kallsyms_lookup_name
*
*  Get the address of a kernel symbol, returned in *res*. *res* is
*  set to 0 if the symbol is not found.
*
* Returns
*  On success, zero. On error, a negative value.
*
*  **-EINVAL** if *flags* is not zero.
*
*  **-EINVAL** if string *name* is not the same size as *name_sz*.
*
*  **-ENOENT** if symbol is not found.
*
*  **-EPERM** if caller does not have permission to obtain kernel address.
*/
static long (* const bpf_kallsyms_lookup_name)(const char *name, int name_sz, int
 flags, __u64 *res) = (void *) 179;

/*
* bpf_find_vma
*
*  Find vma of *task* that contains *addr*, call *callback_fn*
*  function with *task*, *vma*, and *callback_ctx*.
*  The *callback_fn* should be a static function and
*  the *callback_ctx* should be a pointer to the stack.
*  The *flags* is used to control certain aspects of the helper.
```

```
*  Currently, the *flags* must be 0.
*
*  The expected callback signature is
*
*  long (\*callback_fn)(struct task_struct \*task, struct vm_area_struct \*vma, void \*callback_ctx);
*
*
* Returns
*  0 on success.
*  **-ENOENT** if *task->mm* is NULL, or no vma contains *addr*.
*  **-EBUSY** if failed to try lock mmap_lock.
*  **-EINVAL** for invalid **flags**.
*/
static long (* const bpf_find_vma)(struct task_struct *task, __u64 addr, void *callback_fn, void *callback_ctx,
__u64 flags) = (void *) 180;

/*
* bpf_loop
*
*  For **nr_loops**, call **callback_fn** function
*  with **callback_ctx** as the context parameter.
*  The
 **callback_fn** should be a static function and
*  the **callback_ctx** should be a pointer to the stack.
*  The **flags** is used to control certain aspects of the helper.
*  Currently, the **flags** must be 0. Currently, nr_loops is
*  limited to 1 << 23 (~8 million) loops.
*
*  long (\*callback_fn)(u32 index, void \*ctx);
*
*  where **index** is the current index in the loop. The index
*  is zero-indexed.
*
*  If **callback_fn** returns 0, the helper will continue to the next
*  loop. If return value is 1, the helper will skip the rest of
*  the loops and return. Other return values are not used now,
*  and will be rejected by the verifier.
*
*
* Returns
*  The number of loops performed, **-EINVAL** for invalid **flags**,
*  **-E2BIG** if **nr_loops** exceeds the maximum number of loops.
*/
static long (* const bpf_loop)(__u32 nr_loops, void *callback_fn, void *callback_ctx, __u64 flags) = (void *) 181;

/*
* bpf_strncmp
*
```

```
*  Do strncmp() between **s1** and
 **s2**. **s1** doesn't need
*  to be null-terminated and **s1_sz** is the maximum storage
*  size of **s1**. **s2** must be a read-only string.
*
* Returns
*  An integer less than, equal to, or greater than zero
*  if the first **s1_sz** bytes of **s1** is found to be
*  less than, to match, or be greater than **s2**.
*/
static long (* const bpf_strncmp)(const char *s1, __u32 s1_sz, const char *s2) = (void *) 182;

/*
* bpf_get_func_arg
*
*  Get **n**-th argument register (zero based) of the traced function (for tracing programs)
*  returned in **value**.
*
*
* Returns
*  0 on success.
*  **-EINVAL** if n >= argument register count of traced function.
*/
static long (* const bpf_get_func_arg)(void *ctx, __u32 n, __u64 *value) = (void *) 183;

/*
* bpf_get_func_ret
*
*  Get return value of the traced function (for tracing programs)
*  in **value**.
*
*
* Returns
*  0 on success.
*  **-EOPNOTSUPP** for tracing programs other than BPF_TRACE_FEXIT or BPF_MODIFY_RETURN.
 */
static long (* const bpf_get_func_ret)(void *ctx, __u64 *value) = (void *) 184;

/*
* bpf_get_func_arg_cnt
*
*  Get number of registers of the traced function (for tracing programs) where
*  function arguments are stored in these registers.
*
*
* Returns
*  The number of argument registers of the traced function.
*/
```

```
static long (* const bpf_get_func_arg_cnt)(void *ctx) = (void *) 185;

/*
* bpf_get_retval
*
*  Get the BPF program's return value that will be returned to the upper layers.
*
*  This helper is currently supported by cgroup programs and only by the hooks
*  where BPF program's return value is returned to the userspace via errno.
*
* Returns
*  The BPF program's return value.
*/
static int (* const bpf_get_retval)(void) = (void *) 186;

/*
* bpf_set_retval
*
*  Set the BPF program's return value that will be returned to the upper layers.
*
*  This helper is currently supported by cgroup programs and only by the hooks
*  where BPF program's
 return value is returned to the userspace via errno.
*
*  Note that there is the following corner case where the program exports an error
*  via bpf_set_retval but signals success via 'return 1':
*
*   bpf_set_retval(-EPERM);
*   return 1;
*
*  In this case, the BPF program's return value will use helper's -EPERM. This
*  still holds true for cgroup/bind{4,6} which supports extra 'return 3' success case.
*
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static int (* const bpf_set_retval)(int retval) = (void *) 187;

/*
* bpf_xdp_get_buff_len
*
*  Get the total size of a given xdp buff (linear and paged area)
*
* Returns
*  The total size of a given xdp buffer.
*/
static __u64 (* const bpf_xdp_get_buff_len)(struct xdp_md *xdp_md) = (void *) 188;
```

```
/*
* bpf_xdp_load_bytes
*
*  This helper is provided as an easy way to load data from a
*  xdp buffer. It can be used to load *len* bytes from *offset* from
*  the frame associated to *xdp_md*,
 into the buffer pointed by
*  *buf*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_load_bytes)(struct xdp_md *xdp_md, __u32 offset, void *buf, __u32 len) = (void *)
189;

/*
* bpf_xdp_store_bytes
*
*  Store *len* bytes from buffer *buf* into the frame
*  associated to *xdp_md*, at *offset*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_store_bytes)(struct xdp_md *xdp_md, __u32 offset, void *buf, __u32 len) = (void *)
190;

/*
* bpf_copy_from_user_task
*
*  Read *size* bytes from user space address *user_ptr* in *tsk*'s
*  address space, and stores the data in *dst*. *flags* is not
*  used yet and is provided for future extensibility. This helper
*  can only be used by sleepable programs.
*
* Returns
*  0 on success, or a negative error in case of failure. On error
*  *dst* buffer is zeroed out.
*/
static long (* const bpf_copy_from_user_task)(void *dst,
 __u32 size, const void *user_ptr, struct task_struct *tsk, __u64 flags) = (void *) 191;

/*
* bpf_skb_set_tstamp
*
*  Change the __sk_buff->tstamp_type to *tstamp_type*
*  and set *tstamp* to the __sk_buff->tstamp together.
```

```
*
*  If there is no need to change the __sk_buff->tstamp_type,
*  the tstamp value can be directly written to __sk_buff->tstamp
*  instead.
*
*  BPF_SKB_TSTAMP_DELIVERY_MONO is the only tstamp that
*  will be kept during bpf_redirect_*().  A non zero
*  *tstamp* must be used with the BPF_SKB_TSTAMP_DELIVERY_MONO
*  *tstamp_type*.
*
*  A BPF_SKB_TSTAMP_UNSPEC *tstamp_type* can only be used
*  with a zero *tstamp*.
*
*  Only IPv4 and IPv6 skb->protocol are supported.
*
*  This function is most useful when it needs to set a
*  mono delivery time to __sk_buff->tstamp and then
*  bpf_redirect_*() to the egress of an iface.  For example,
*  changing the (rcv) timestamp in __sk_buff->tstamp at
*  ingress to a mono delivery time and then bpf_redirect_*()
 *  to sch_fq@phy-dev.
*
* Returns
*  0 on success.
*  **-EINVAL** for invalid input
*  **-EOPNOTSUPP** for unsupported protocol
*/
static long (* const bpf_skb_set_tstamp)(struct __sk_buff *skb, __u64 tstamp, __u32 tstamp_type) = (void *) 192;

/*
* bpf_ima_file_hash
*
*  Returns a calculated IMA hash of the *file*.
*  If the hash is larger than *size*, then only *size*
*  bytes will be copied to *dst*
*
* Returns
*  The **hash_algo** is returned on success,
*  **-EOPNOTSUP** if the hash calculation failed or **-EINVAL** if
*  invalid arguments are passed.
*/
static long (* const bpf_ima_file_hash)(struct file *file, void *dst, __u32 size) = (void *) 193;

/*
* bpf_kptr_xchg
*
*  Exchange kptr at pointer *map_value* with *ptr*, and return the
*  old value. *ptr* can be NULL, otherwise it must be a referenced
```

```
*  pointer which will be released when this helper is called.
*
* Returns
*  The old value of kptr (which can be NULL). The returned pointer
*  if
 not NULL, is a reference which must be released using its
*  corresponding release function, or moved into a BPF map before
*  program exit.
*/
static void *(* const bpf_kptr_xchg)(void *map_value, void *ptr) = (void *) 194;

/*
* bpf_map_lookup_percpu_elem
*
*  Perform a lookup in *percpu map* for an entry associated to
*  *key* on *cpu*.
*
* Returns
*  Map value associated to *key* on *cpu*, or **NULL** if no entry
*  was found or *cpu* is invalid.
*/
static void *(* const bpf_map_lookup_percpu_elem)(void *map, const void *key, __u32 cpu) = (void *) 195;

/*
* bpf_skc_to_mptcp_sock
*
*  Dynamically cast a *sk* pointer to a *mptcp_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct mptcp_sock *(* const bpf_skc_to_mptcp_sock)(void *sk) = (void *) 196;

/*
* bpf_dynptr_from_mem
*
*  Get a dynptr to local memory *data*.
*
*  *data* must be a ptr to a map value.
*  The maximum *size* supported is DYNPTR_MAX_SIZE.
*  *flags*
 is currently unused.
*
* Returns
*  0 on success, -E2BIG if the size exceeds DYNPTR_MAX_SIZE,
*  -EINVAL if flags is not 0.
*/
static long (* const bpf_dynptr_from_mem)(void *data, __u32 size, __u64 flags, struct bpf_dynptr *ptr) = (void *)
```

```
197;

/*
* bpf_ringbuf_reserve_dynptr
*
*  Reserve *size* bytes of payload in a ring buffer *ringbuf*
*  through the dynptr interface. *flags* must be 0.
*
*  Please note that a corresponding bpf_ringbuf_submit_dynptr or
*  bpf_ringbuf_discard_dynptr must be called on *ptr*, even if the
*  reservation fails. This is enforced by the verifier.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_ringbuf_reserve_dynptr)(void *ringbuf, __u32 size, __u64 flags, struct bpf_dynptr *ptr) =
(void *) 198;

/*
* bpf_ringbuf_submit_dynptr
*
*  Submit reserved ring buffer sample, pointed to by *data*,
*  through the dynptr interface. This is a no-op if the dynptr is
*  invalid/null.
*
*
  For more information on *flags*, please see
*  'bpf_ringbuf_submit'.
*
* Returns
*  Nothing. Always succeeds.
*/
static void (* const bpf_ringbuf_submit_dynptr)(struct bpf_dynptr *ptr, __u64 flags) = (void *) 199;

/*
* bpf_ringbuf_discard_dynptr
*
*  Discard reserved ring buffer sample through the dynptr
*  interface. This is a no-op if the dynptr is invalid/null.
*
*  For more information on *flags*, please see
*  'bpf_ringbuf_discard'.
*
* Returns
*  Nothing. Always succeeds.
*/
static void (* const bpf_ringbuf_discard_dynptr)(struct bpf_dynptr *ptr, __u64 flags) = (void *) 200;
```

```
/*
* bpf_dynptr_read
*
*  Read *len* bytes from *src* into *dst*, starting from *offset*
*  into *src*.
*  *flags* is currently unused.
*
* Returns
*  0 on success, -E2BIG if *offset* + *len* exceeds the length
*  of *src*'s data, -EINVAL if *src* is an invalid dynptr or if
*  *flags* is not 0.
*/
static long (* const bpf_dynptr_read)(void *dst, __u32 len, const struct bpf_dynptr
 *src, __u32 offset, __u64 flags) = (void *) 201;

/*
* bpf_dynptr_write
*
*  Write *len* bytes from *src* into *dst*, starting from *offset*
*  into *dst*.
*
*  *flags* must be 0 except for skb-type dynptrs.
*
*  For skb-type dynptrs:
*      *  All data slices of the dynptr are automatically
*         invalidated after **bpf_dynptr_write**\ (). This is
*         because writing may pull the skb and change the
*         underlying packet buffer.
*
*      *  For *flags*, please see the flags accepted by
*         **bpf_skb_store_bytes**\ ().
*
* Returns
*  0 on success, -E2BIG if *offset* + *len* exceeds the length
*  of *dst*'s data, -EINVAL if *dst* is an invalid dynptr or if *dst*
*  is a read-only dynptr or if *flags* is not correct. For skb-type dynptrs,
*  other errors correspond to errors returned by **bpf_skb_store_bytes**\ ().
*/
static long (* const bpf_dynptr_write)(const struct bpf_dynptr *dst, __u32 offset, void *src, __u32 len, __u64 flags)
= (void *)
 202;

/*
* bpf_dynptr_data
*
*  Get a pointer to the underlying dynptr data.
*
*  *len* must be a statically known value. The returned data slice
```

* is invalidated whenever the dynptr is invalidated.
*
* skb and xdp type dynptrs may not use bpf_dynptr_data. They should
* instead use bpf_dynptr_slice and bpf_dynptr_slice_rdwr.
*
* Returns
* Pointer to the underlying dynptr data, NULL if the dynptr is
* read-only, if the dynptr is invalid, or if the offset and length
* is out of bounds.
*/
static void *(* const bpf_dynptr_data)(const struct bpf_dynptr *ptr, __u32 offset, __u32 len) = (void *) 203;

/*
* bpf_tcp_raw_gen_syncookie_ipv4
*
* Try to issue a SYN cookie for the packet with corresponding
* IPv4/TCP headers, *iph* and *th*, without depending on a
* listening socket.
*
* *iph* points to the IPv4 header.
*
* *th* points to the start of the TCP header, while *th_len*
* contains the length of the TCP header (at least
* **sizeof**\ (**struct tcphdr**)).
 *
* Returns
* On success, lower 32 bits hold the generated SYN cookie in
* followed by 16 bits which hold the MSS value for that cookie,
* and the top 16 bits are unused.
*
* On failure, the returned value is one of the following:
*
* **-EINVAL** if *th_len* is invalid.
*/
static __s64 (* const bpf_tcp_raw_gen_syncookie_ipv4)(struct iphdr *iph, struct tcphdr *th, __u32 th_len) = (void
*) 204;

/*
* bpf_tcp_raw_gen_syncookie_ipv6
*
* Try to issue a SYN cookie for the packet with corresponding
* IPv6/TCP headers, *iph* and *th*, without depending on a
* listening socket.
*
* *iph* points to the IPv6 header.
*
* *th* points to the start of the TCP header, while *th_len*
* contains the length of the TCP header (at least

```
*  **sizeof**\ (**struct tcphdr**)).
*
* Returns
*  On success, lower 32 bits hold the generated SYN cookie in
*  followed by 16 bits which hold the MSS value for that cookie,
*  and the top 16 bits are unused.
*
*  On failure,
 the returned value is one of the following:
*
*  **-EINVAL** if *th_len* is invalid.
*
*  **-EPROTONOSUPPORT** if CONFIG_IPV6 is not builtin.
*/
static __s64 (* const bpf_tcp_raw_gen_syncookie_ipv6)(struct ipv6hdr *iph, struct tcphdr *th, __u32 th_len) =
(void *) 205;

/*
* bpf_tcp_raw_check_syncookie_ipv4
*
*  Check whether *iph* and *th* contain a valid SYN cookie ACK
*  without depending on a listening socket.
*
*  *iph* points to the IPv4 header.
*
*  *th* points to the TCP header.
*
* Returns
*  0 if *iph* and *th* are a valid SYN cookie ACK.
*
*  On failure, the returned value is one of the following:
*
*  **-EACCES** if the SYN cookie is not valid.
*/
static long (* const bpf_tcp_raw_check_syncookie_ipv4)(struct iphdr *iph, struct tcphdr *th) = (void *) 206;

/*
* bpf_tcp_raw_check_syncookie_ipv6
*
*  Check whether *iph* and *th* contain a valid SYN cookie ACK
*  without depending on a listening socket.
*
*  *iph* points to the IPv6 header.
*
*  *th*
 points to the TCP header.
*
* Returns
```

```
*  0 if *iph* and *th* are a valid SYN cookie ACK.
*
*  On failure, the returned value is one of the following:
*
*  **-EACCES** if the SYN cookie is not valid.
*
*  **-EPROTONOSUPPORT** if CONFIG_IPV6 is not builtin.
*/
static long (* const bpf_tcp_raw_check_syncookie_ipv6)(struct ipv6hdr *iph, struct tcphdr *th) = (void *) 207;

/*
* bpf_ktime_get_tai_ns
*
*  A nonsettable system-wide clock derived from wall-clock time but
*  ignoring leap seconds.  This clock does not experience
*  discontinuities and backwards jumps caused by NTP inserting leap
*  seconds as CLOCK_REALTIME does.
*
*  See: **clock_gettime**\ (**CLOCK_TAI**)
*
* Returns
*  Current *ktime*.
*/
static __u64 (* const bpf_ktime_get_tai_ns)(void) = (void *) 208;

/*
* bpf_user_ringbuf_drain
*
*  Drain samples from the specified user ring buffer, and invoke
*  the provided callback for each such sample:
*
*  long (\*callback_fn)(const struct bpf_dynptr \*dynptr,
 void \*ctx);
*
*  If **callback_fn** returns 0, the helper will continue to try
*  and drain the next sample, up to a maximum of
*  BPF_MAX_USER_RINGBUF_SAMPLES samples. If the return value is 1,
*  the helper will skip the rest of the samples and return. Other
*  return values are not used now, and will be rejected by the
*  verifier.
*
* Returns
*  The number of drained samples if no error was encountered while
*  draining samples, or 0 if no samples were present in the ring
*  buffer. If a user-space producer was epoll-waiting on this map,
*  and at least one sample was drained, they will receive an event
*  notification notifying them of available space in the ring
*  buffer. If the BPF_RB_NO_WAKEUP flag is passed to this
```

```
*  function, no wakeup notification will be sent. If the
*  BPF_RB_FORCE_WAKEUP flag is passed, a wakeup notification will
*  be sent even if no sample was drained.
*
*  On failure, the returned value is one of the following:
*
*  **-EBUSY**
 if the ring buffer is contended, and another calling
*  context was concurrently draining the ring buffer.
*
*  **-EINVAL** if user-space is not properly tracking the ring
*  buffer due to the producer position not being aligned to 8
*  bytes, a sample not being aligned to 8 bytes, or the producer
*  position not matching the advertised length of a sample.
*
*  **-E2BIG** if user-space has tried to publish a sample which is
*  larger than the size of the ring buffer, or which cannot fit
*  within a struct bpf_dynptr.
*/
static long (* const bpf_user_ringbuf_drain)(void *map, void *callback_fn, void *ctx, __u64 flags) = (void *) 209;

/*
* bpf_cgrp_storage_get
*
*  Get a bpf_local_storage from the *cgroup*.
*
*  Logically, it could be thought of as getting the value from
*  a *map* with *cgroup* as the **key**.  From this
*  perspective,  the usage is not much different from
*  **bpf_map_lookup_elem**\ (*map*, **&**\ *cgroup*) except this
*  helper enforces the
 key must be a cgroup struct and the map must also
*  be a **BPF_MAP_TYPE_CGRP_STORAGE**.
*
*  In reality, the local-storage value is embedded directly inside of the
*  *cgroup* object itself, rather than being located in the
*  **BPF_MAP_TYPE_CGRP_STORAGE** map. When the local-storage value is
*  queried for some *map* on a *cgroup* object, the kernel will perform an
*  O(n) iteration over all of the live local-storage values for that
*  *cgroup* object until the local-storage value for the *map* is found.
*
*  An optional *flags* (**BPF_LOCAL_STORAGE_GET_F_CREATE**) can be
*  used such that a new bpf_local_storage will be
*  created if one does not exist.  *value* can be used
*  together with **BPF_LOCAL_STORAGE_GET_F_CREATE** to specify
*  the initial value of a bpf_local_storage.  If *value* is
*  **NULL**, the new bpf_local_storage will be zero initialized.
*
```

* Returns
* A bpf_local_storage pointer is returned on success.
*
* **NULL** if not found or there was
 an error in adding
* a new bpf_local_storage.
*/
static void *(* const bpf_cgrp_storage_get)(void *map, struct cgroup *cgroup, void *value, __u64 flags) = (void *)
210;

/*
* bpf_cgrp_storage_delete
*
* Delete a bpf_local_storage from a *cgroup*.
*
* Returns
* 0 on success.
*
* **-ENOENT** if the bpf_local_storage cannot be found.
*/
static long (* const bpf_cgrp_storage_delete)(void *map, struct cgroup *cgroup) = (void *) 211;
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/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
#ifndef __BPF_TRACING_H__
#define __BPF_TRACING_H__

#include "bpf_helpers.h"

/* Scan the ARCH passed in from ARCH env variable (see Makefile) */
#if defined(__TARGET_ARCH_x86)
 #define bpf_target_x86
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_s390)
 #define bpf_target_s390
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_arm)
 #define bpf_target_arm
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_arm64)
 #define bpf_target_arm64
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_mips)
 #define bpf_target_mips
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_powerpc)
 #define bpf_target_powerpc
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_sparc)
 #define bpf_target_sparc
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_riscv)
 #define bpf_target_riscv
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_arc)
 #define bpf_target_arc
 #define bpf_target_defined

```
#elif defined(__TARGET_ARCH_loongarch)
 #define
 bpf_target_loongarch
 #define bpf_target_defined
#else

/* Fall back to what the compiler says */
#if defined(__x86_64__)
 #define bpf_target_x86
 #define bpf_target_defined
#elif defined(__s390__)
 #define bpf_target_s390
 #define bpf_target_defined
#elif defined(__arm__)
 #define bpf_target_arm
 #define bpf_target_defined
#elif defined(__aarch64__)
 #define bpf_target_arm64
 #define bpf_target_defined
#elif defined(__mips__)
 #define bpf_target_mips
 #define bpf_target_defined
#elif defined(__powerpc__)
 #define bpf_target_powerpc
 #define bpf_target_defined
#elif defined(__sparc__)
 #define bpf_target_sparc
 #define bpf_target_defined
#elif defined(__riscv) && __riscv_xlen == 64
 #define bpf_target_riscv
 #define bpf_target_defined
#elif defined(__arc__)
 #define bpf_target_arc
 #define bpf_target_defined
#elif defined(__loongarch__)
 #define bpf_target_loongarch
 #define bpf_target_defined
#endif /* no compiler target */

#endif

#ifndef __BPF_TARGET_MISSING
#define
 __BPF_TARGET_MISSING "GCC error \"Must specify a BPF target arch via __TARGET_ARCH_xxx\""
#endif

#if defined(bpf_target_x86)
```

```
/*
* https://en.wikipedia.org/wiki/X86_calling_conventions#System_V_AMD64_ABI
*/

#if defined(__KERNEL__) || defined(__VMLINUX_H__)

#define __PT_PARM1_REG di
#define __PT_PARM2_REG si
#define __PT_PARM3_REG dx
#define __PT_PARM4_REG cx
#define __PT_PARM5_REG r8
#define __PT_PARM6_REG r9
/*
* Syscall uses r10 for PARM4. See arch/x86/entry/entry_64.S:entry_SYSCALL_64
* comments in Linux sources. And refer to syscall(2) manpage.
*/
#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG r10
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG

#define __PT_RET_REG sp
#define __PT_FP_REG bp
#define __PT_RC_REG ax
#define __PT_SP_REG sp
#define __PT_IP_REG ip

#else

#ifdef __i386__

/*
 i386 kernel is built with -mregparm=3 */
#define __PT_PARM1_REG eax
#define __PT_PARM2_REG edx
#define __PT_PARM3_REG ecx
/* i386 syscall ABI is very different, refer to syscall(2) manpage */
#define __PT_PARM1_SYSCALL_REG ebx
#define __PT_PARM2_SYSCALL_REG ecx
#define __PT_PARM3_SYSCALL_REG edx
#define __PT_PARM4_SYSCALL_REG esi
#define __PT_PARM5_SYSCALL_REG edi
#define __PT_PARM6_SYSCALL_REG ebp

#define __PT_RET_REG esp
#define __PT_FP_REG ebp
```

```
#define __PT_RC_REG eax
#define __PT_SP_REG esp
#define __PT_IP_REG eip

#else /* __i386__ */

#define __PT_PARM1_REG rdi
#define __PT_PARM2_REG rsi
#define __PT_PARM3_REG rdx
#define __PT_PARM4_REG rcx
#define __PT_PARM5_REG r8
#define __PT_PARM6_REG r9

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG r10
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG

#define __PT_RET_REG rsp
#define
 __PT_FP_REG rbp
#define __PT_RC_REG rax
#define __PT_SP_REG rsp
#define __PT_IP_REG rip

#endif /* __i386__ */

#endif /* __KERNEL__ || __VMLINUX_H__ */

#elif defined(bpf_target_s390)

/*
* https://github.com/IBM/s390x-abi/releases/download/v1.6/lzsabi_s390x.pdf
*/

struct pt_regs___s390 {
 unsigned long orig_gpr2;
};

/* s390 provides user_pt_regs instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const user_pt_regs *)(x))
#define __PT_PARM1_REG gprs[2]
#define __PT_PARM2_REG gprs[3]
#define __PT_PARM3_REG gprs[4]
#define __PT_PARM4_REG gprs[5]
#define __PT_PARM5_REG gprs[6]
```

```
#define __PT_PARM1_SYSCALL_REG orig_gpr2
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG gprs[7]
#define PT_REGS_PARM1_SYSCALL(x) PT_REGS_PARM1_CORE_SYSCALL(x)
#define PT_REGS_PARM1_CORE_SYSCALL(x) \
 BPF_CORE_READ((const
 struct pt_regs___s390 *)(x), __PT_PARM1_SYSCALL_REG)

#define __PT_RET_REG gprs[14]
#define __PT_FP_REG gprs[11] /* Works only with CONFIG_FRAME_POINTER */
#define __PT_RC_REG gprs[2]
#define __PT_SP_REG gprs[15]
#define __PT_IP_REG psw.addr

#elif defined(bpf_target_arm)

/*
* https://github.com/ARM-software/abi-aa/blob/main/aapcs32/aapcs32.rst#machine-registers
*/

#define __PT_PARM1_REG uregs[0]
#define __PT_PARM2_REG uregs[1]
#define __PT_PARM3_REG uregs[2]
#define __PT_PARM4_REG uregs[3]

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG uregs[4]
#define __PT_PARM6_SYSCALL_REG uregs[5]
#define __PT_PARM7_SYSCALL_REG uregs[6]

#define __PT_RET_REG uregs[14]
#define __PT_FP_REG uregs[11] /* Works only with CONFIG_FRAME_POINTER */
#define __PT_RC_REG uregs[0]
#define __PT_SP_REG uregs[13]
#define __PT_IP_REG uregs[12]

#elif
 defined(bpf_target_arm64)

/*
* https://github.com/ARM-software/abi-aa/blob/main/aapcs64/aapcs64.rst#machine-registers
```

```
*/

struct pt_regs___arm64 {
 unsigned long orig_x0;
};

/* arm64 provides struct user_pt_regs instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const struct user_pt_regs *)(x))
#define __PT_PARM1_REG regs[0]
#define __PT_PARM2_REG regs[1]
#define __PT_PARM3_REG regs[2]
#define __PT_PARM4_REG regs[3]
#define __PT_PARM5_REG regs[4]
#define __PT_PARM6_REG regs[5]
#define __PT_PARM7_REG regs[6]
#define __PT_PARM8_REG regs[7]

#define __PT_PARM1_SYSCALL_REG orig_x0
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG
#define PT_REGS_PARM1_SYSCALL(x) PT_REGS_PARM1_CORE_SYSCALL(x)
#define PT_REGS_PARM1_CORE_SYSCALL(x) \
 BPF_CORE_READ((const struct pt_regs___arm64 *)(x),
 __PT_PARM1_SYSCALL_REG)

#define __PT_RET_REG regs[30]
#define __PT_FP_REG regs[29] /* Works only with CONFIG_FRAME_POINTER */
#define __PT_RC_REG regs[0]
#define __PT_SP_REG sp
#define __PT_IP_REG pc

#elif defined(bpf_target_mips)

/*
* N64 ABI is assumed right now.
* https://en.wikipedia.org/wiki/MIPS_architecture#Calling_conventions
*/

#define __PT_PARM1_REG regs[4]
#define __PT_PARM2_REG regs[5]
#define __PT_PARM3_REG regs[6]
#define __PT_PARM4_REG regs[7]
#define __PT_PARM5_REG regs[8]
#define __PT_PARM6_REG regs[9]
#define __PT_PARM7_REG regs[10]
```

```
#define __PT_PARM8_REG regs[11]

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG /* only N32/N64 */
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG /* only N32/N64 */

#define __PT_RET_REG regs[31]
#define __PT_FP_REG regs[30] /* Works only with CONFIG_FRAME_POINTER
 */
#define __PT_RC_REG regs[2]
#define __PT_SP_REG regs[29]
#define __PT_IP_REG cp0_epc

#elif defined(bpf_target_powerpc)

/*
* http://refspecs.linux-foundation.org/elf/elfspec_ppc.pdf (page 3-14,
* section "Function Calling Sequence")
*/

#define __PT_PARM1_REG gpr[3]
#define __PT_PARM2_REG gpr[4]
#define __PT_PARM3_REG gpr[5]
#define __PT_PARM4_REG gpr[6]
#define __PT_PARM5_REG gpr[7]
#define __PT_PARM6_REG gpr[8]
#define __PT_PARM7_REG gpr[9]
#define __PT_PARM8_REG gpr[10]

/* powerpc does not select ARCH_HAS_SYSCALL_WRAPPER. */
#define PT_REGS_SYSCALL_REGS(ctx) ctx
#define __PT_PARM1_SYSCALL_REG orig_gpr3
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG
#if !defined(__arch64__)
#define __PT_PARM7_SYSCALL_REG __PT_PARM7_REG /* only powerpc (not powerpc64) */
#endif

#define __PT_RET_REG regs[31]
#define
 __PT_FP_REG __unsupported__
#define __PT_RC_REG gpr[3]
```

```
#define __PT_SP_REG sp
#define __PT_IP_REG nip

#elif defined(bpf_target_sparc)

/*
* https://en.wikipedia.org/wiki/Calling_convention#SPARC
*/

#define __PT_PARM1_REG u_regs[UREG_I0]
#define __PT_PARM2_REG u_regs[UREG_I1]
#define __PT_PARM3_REG u_regs[UREG_I2]
#define __PT_PARM4_REG u_regs[UREG_I3]
#define __PT_PARM5_REG u_regs[UREG_I4]
#define __PT_PARM6_REG u_regs[UREG_I5]

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG

#define __PT_RET_REG u_regs[UREG_I7]
#define __PT_FP_REG __unsupported__
#define __PT_RC_REG u_regs[UREG_I0]
#define __PT_SP_REG u_regs[UREG_FP]
/* Should this also be a bpf_target check for the sparc case? */
#if defined(__arch64__)
#define __PT_IP_REG tpc
#else
#define
 __PT_IP_REG pc
#endif

#elif defined(bpf_target_riscv)

/*
* https://github.com/riscv-non-isa/riscv-elf-psabi-doc/blob/master/riscv-cc.adoc#risc-v-calling-conventions
*/

/* riscv provides struct user_regs_struct instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const struct user_regs_struct *)(x))
#define __PT_PARM1_REG a0
#define __PT_PARM2_REG a1
#define __PT_PARM3_REG a2
#define __PT_PARM4_REG a3
#define __PT_PARM5_REG a4
```

```
#define __PT_PARM6_REG a5
#define __PT_PARM7_REG a6
#define __PT_PARM8_REG a7

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG

#define __PT_RET_REG ra
#define __PT_FP_REG s0
#define __PT_RC_REG a0
#define __PT_SP_REG sp
#define __PT_IP_REG pc

#elif defined(bpf_target_arc)

/*
* Section "Function Calling Sequence" (page
 24):
* https://raw.githubusercontent.com/wiki/foss-for-synopsys-dwc-arc-processors/toolchain/files/ARCv2_ABI.pdf
*/

/* arc provides struct user_regs_struct instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const struct user_regs_struct *)(x))
#define __PT_PARM1_REG scratch.r0
#define __PT_PARM2_REG scratch.r1
#define __PT_PARM3_REG scratch.r2
#define __PT_PARM4_REG scratch.r3
#define __PT_PARM5_REG scratch.r4
#define __PT_PARM6_REG scratch.r5
#define __PT_PARM7_REG scratch.r6
#define __PT_PARM8_REG scratch.r7

/* arc does not select ARCH_HAS_SYSCALL_WRAPPER. */
#define PT_REGS_SYSCALL_REGS(ctx) ctx
#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG

#define __PT_RET_REG scratch.blink
#define __PT_FP_REG scratch.fp
#define __PT_RC_REG scratch.r0
```

```
#define
 __PT_SP_REG scratch.sp
#define __PT_IP_REG scratch.ret

#elif defined(bpf_target_loongarch)

/*
* https://docs.kernel.org/loongarch/introduction.html
* https://loongson.github.io/LoongArch-Documentation/LoongArch-ELF-ABI-EN.html
*/

/* loongarch provides struct user_pt_regs instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const struct user_pt_regs *)(x))
#define __PT_PARM1_REG regs[4]
#define __PT_PARM2_REG regs[5]
#define __PT_PARM3_REG regs[6]
#define __PT_PARM4_REG regs[7]
#define __PT_PARM5_REG regs[8]
#define __PT_PARM6_REG regs[9]
#define __PT_PARM7_REG regs[10]
#define __PT_PARM8_REG regs[11]

/* loongarch does not select ARCH_HAS_SYSCALL_WRAPPER. */
#define PT_REGS_SYSCALL_REGS(ctx) ctx
#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG
 __PT_PARM6_REG

#define __PT_RET_REG regs[1]
#define __PT_FP_REG regs[22]
#define __PT_RC_REG regs[4]
#define __PT_SP_REG regs[3]
#define __PT_IP_REG csr_era

#endif

#if defined(bpf_target_defined)

struct pt_regs;

/* allow some architectures to override `struct pt_regs` */
#ifndef __PT_REGS_CAST
#define __PT_REGS_CAST(x) (x)
#endif
```

```
/*
* Different architectures support different number of arguments passed
* through registers. i386 supports just 3, some arches support up to 8.
*/
#ifndef __PT_PARM4_REG
#define __PT_PARM4_REG __unsupported__
#endif
#ifndef __PT_PARM5_REG
#define __PT_PARM5_REG __unsupported__
#endif
#ifndef __PT_PARM6_REG
#define __PT_PARM6_REG __unsupported__
#endif
#ifndef __PT_PARM7_REG
#define __PT_PARM7_REG __unsupported__
#endif
#ifndef __PT_PARM8_REG
#define __PT_PARM8_REG __unsupported__
#endif
/*
* Similarly, syscall-specific conventions might differ between function call
* conventions within each architecutre. All supported architectures pass
* either
 6 or 7 syscall arguments in registers.
*
* See syscall(2) manpage for succinct table with information on each arch.
*/
#ifndef __PT_PARM7_SYSCALL_REG
#define __PT_PARM7_SYSCALL_REG __unsupported__
#endif

#define PT_REGS_PARM1(x) (__PT_REGS_CAST(x)->__PT_PARM1_REG)
#define PT_REGS_PARM2(x) (__PT_REGS_CAST(x)->__PT_PARM2_REG)
#define PT_REGS_PARM3(x) (__PT_REGS_CAST(x)->__PT_PARM3_REG)
#define PT_REGS_PARM4(x) (__PT_REGS_CAST(x)->__PT_PARM4_REG)
#define PT_REGS_PARM5(x) (__PT_REGS_CAST(x)->__PT_PARM5_REG)
#define PT_REGS_PARM6(x) (__PT_REGS_CAST(x)->__PT_PARM6_REG)
#define PT_REGS_PARM7(x) (__PT_REGS_CAST(x)->__PT_PARM7_REG)
#define PT_REGS_PARM8(x) (__PT_REGS_CAST(x)->__PT_PARM8_REG)
#define PT_REGS_RET(x) (__PT_REGS_CAST(x)->__PT_RET_REG)
#define PT_REGS_FP(x) (__PT_REGS_CAST(x)->__PT_FP_REG)
#define PT_REGS_RC(x) (__PT_REGS_CAST(x)->__PT_RC_REG)
#define PT_REGS_SP(x) (__PT_REGS_CAST(x)->__PT_SP_REG)
#define PT_REGS_IP(x) (__PT_REGS_CAST(x)->__PT_IP_REG)

#define PT_REGS_PARM1_CORE(x)
```

```
 BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM1_REG)
#define PT_REGS_PARM2_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM2_REG)
#define PT_REGS_PARM3_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM3_REG)
#define PT_REGS_PARM4_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM4_REG)
#define PT_REGS_PARM5_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM5_REG)
#define PT_REGS_PARM6_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM6_REG)
#define PT_REGS_PARM7_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM7_REG)
#define PT_REGS_PARM8_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM8_REG)
#define PT_REGS_RET_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_RET_REG)
#define PT_REGS_FP_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_FP_REG)
#define PT_REGS_RC_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_RC_REG)
#define PT_REGS_SP_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_SP_REG)
#define PT_REGS_IP_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_IP_REG)

#if defined(bpf_target_powerpc)

#define
 BPF_KPROBE_READ_RET_IP(ip, ctx)  ({ (ip) = (ctx)->link; })
#define BPF_KRETPROBE_READ_RET_IP  BPF_KPROBE_READ_RET_IP

#elif defined(bpf_target_sparc)

#define BPF_KPROBE_READ_RET_IP(ip, ctx)  ({ (ip) = PT_REGS_RET(ctx); })
#define BPF_KRETPROBE_READ_RET_IP  BPF_KPROBE_READ_RET_IP

#else

#define BPF_KPROBE_READ_RET_IP(ip, ctx)        \
 ({ bpf_probe_read_kernel(&(ip), sizeof(ip), (void *)PT_REGS_RET(ctx)); })
#define BPF_KRETPROBE_READ_RET_IP(ip, ctx)       \
 ({ bpf_probe_read_kernel(&(ip), sizeof(ip), (void *)(PT_REGS_FP(ctx) + sizeof(ip))); })

#endif

#ifndef PT_REGS_PARM1_SYSCALL
#define PT_REGS_PARM1_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM1_SYSCALL_REG)
#define PT_REGS_PARM1_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM1_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM2_SYSCALL
#define PT_REGS_PARM2_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM2_SYSCALL_REG)
#define PT_REGS_PARM2_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM2_SYSCALL_REG)
#endif
#ifndef
 PT_REGS_PARM3_SYSCALL
#define PT_REGS_PARM3_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM3_SYSCALL_REG)
#define PT_REGS_PARM3_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
```

```
__PT_PARM3_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM4_SYSCALL
#define PT_REGS_PARM4_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM4_SYSCALL_REG)
#define PT_REGS_PARM4_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM4_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM5_SYSCALL
#define PT_REGS_PARM5_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM5_SYSCALL_REG)
#define PT_REGS_PARM5_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM5_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM6_SYSCALL
#define PT_REGS_PARM6_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM6_SYSCALL_REG)
#define PT_REGS_PARM6_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM6_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM7_SYSCALL
#define PT_REGS_PARM7_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM7_SYSCALL_REG)
#define PT_REGS_PARM7_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
 __PT_PARM7_SYSCALL_REG)
#endif

#else /* defined(bpf_target_defined) */

#define PT_REGS_PARM1(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM2(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM3(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM4(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM5(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM6(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM7(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM8(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_RET(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_FP(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_RC(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_SP(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_IP(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })

#define PT_REGS_PARM1_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l;
 })
#define PT_REGS_PARM2_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM3_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM4_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM5_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM6_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM7_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM8_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
```

```
#define PT_REGS_RET_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_FP_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_RC_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_SP_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_IP_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })

#define BPF_KPROBE_READ_RET_IP(ip, ctx) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define BPF_KRETPROBE_READ_RET_IP(ip, ctx) ({ _Pragma(__BPF_TARGET_MISSING);
 0l; })

#define PT_REGS_PARM1_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM2_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM3_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM4_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM5_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM6_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM7_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })

#define PT_REGS_PARM1_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM2_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM3_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM4_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM5_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM6_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define
 PT_REGS_PARM7_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })

#endif /* defined(bpf_target_defined) */

/*
* When invoked from a syscall handler kprobe, returns a pointer to a
* struct pt_regs containing syscall arguments and suitable for passing to
* PT_REGS_PARMn_SYSCALL() and PT_REGS_PARMn_CORE_SYSCALL().
*/
#ifndef PT_REGS_SYSCALL_REGS
/* By default, assume that the arch selects ARCH_HAS_SYSCALL_WRAPPER. */
#define PT_REGS_SYSCALL_REGS(ctx) ((struct pt_regs *)PT_REGS_PARM1(ctx))
#endif

#ifndef ___bpf_concat
#define ___bpf_concat(a, b) a ## b
#endif
#ifndef ___bpf_apply
#define ___bpf_apply(fn, n) ___bpf_concat(fn, n)
#endif
#ifndef ___bpf_nth
#define ___bpf_nth(_, _1, _2, _3, _4, _5, _6, _7, _8, _9, _a, _b, _c, N, ...) N
#endif
```

```
#ifndef ___bpf_narg
#define ___bpf_narg(...) ___bpf_nth(_, ##__VA_ARGS__, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0)
#endif

#define ___bpf_ctx_cast0()           ctx
#define ___bpf_ctx_cast1(x)          ___bpf_ctx_cast0(), (void *)ctx[0]
#define
 ___bpf_ctx_cast2(x, args...)  ___bpf_ctx_cast1(args), (void *)ctx[1]
#define ___bpf_ctx_cast3(x, args...)  ___bpf_ctx_cast2(args), (void *)ctx[2]
#define ___bpf_ctx_cast4(x, args...)  ___bpf_ctx_cast3(args), (void *)ctx[3]
#define ___bpf_ctx_cast5(x, args...)  ___bpf_ctx_cast4(args), (void *)ctx[4]
#define ___bpf_ctx_cast6(x, args...)  ___bpf_ctx_cast5(args), (void *)ctx[5]
#define ___bpf_ctx_cast7(x, args...)  ___bpf_ctx_cast6(args), (void *)ctx[6]
#define ___bpf_ctx_cast8(x, args...)  ___bpf_ctx_cast7(args), (void *)ctx[7]
#define ___bpf_ctx_cast9(x, args...)  ___bpf_ctx_cast8(args), (void *)ctx[8]
#define ___bpf_ctx_cast10(x, args...) ___bpf_ctx_cast9(args), (void *)ctx[9]
#define ___bpf_ctx_cast11(x, args...) ___bpf_ctx_cast10(args), (void *)ctx[10]
#define ___bpf_ctx_cast12(x, args...) ___bpf_ctx_cast11(args), (void *)ctx[11]
#define ___bpf_ctx_cast(args...)      ___bpf_apply(___bpf_ctx_cast, ___bpf_narg(args))(args)

/*
* BPF_PROG is a convenience wrapper for generic
 tp_btf/fentry/fexit and
* similar kinds of BPF programs, that accept input arguments as a single
* pointer to untyped u64 array, where each u64 can actually be a typed
* pointer or integer of different size. Instead of requring user to write
* manual casts and work with array elements by index, BPF_PROG macro
* allows user to declare a list of named and typed input arguments in the
* same syntax as for normal C function. All the casting is hidden and
* performed transparently, while user code can just assume working with
* function arguments of specified type and name.
*
* Original raw context argument is preserved as well as 'ctx' argument.
* This is useful when using BPF helpers that expect original context
* as one of the parameters (e.g., for bpf_perf_event_output()).
*/
#define BPF_PROG(name, args...)         \
name(unsigned long long *ctx);          \
static __always_inline typeof(name(0))        \
____##name(unsigned long long *ctx, ##args);       \
typeof(name(0))
 name(unsigned long long *ctx)       \
{           \
 _Pragma("GCC diagnostic push")        \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"")     \
 return ____##name(___bpf_ctx_cast(args));      \
 _Pragma("GCC diagnostic pop")        \
}           \
```

```
static __always_inline typeof(name(0))        \
____##name(unsigned long long *ctx, ##args)

#ifndef ___bpf_nth2
#define ___bpf_nth2(_, _1, _2, _3, _4, _5, _6, _7, _8, _9, _10, _11, _12, _13, \
     _14, _15, _16, _17, _18, _19, _20, _21, _22, _23, _24, N, ...) N
#endif
#ifndef ___bpf_narg2
#define ___bpf_narg2(...) \
 ___bpf_nth2(_, ##__VA_ARGS__, 12, 12, 11, 11, 10, 10, 9, 9, 8, 8, 7, 7, \
     6, 6, 5, 5, 4, 4, 3, 3, 2, 2, 1, 1, 0)
#endif

#define ___bpf_treg_cnt(t) \
 __builtin_choose_expr(sizeof(t) == 1, 1, \
 __builtin_choose_expr(sizeof(t) == 2, 1, \
 __builtin_choose_expr(sizeof(t) == 4, 1, \
 __builtin_choose_expr(sizeof(t) == 8, 1, \
 __builtin_choose_expr(sizeof(t) == 16, 2, \
       (void)0)))))

#define
 ___bpf_reg_cnt0()  (0)
#define ___bpf_reg_cnt1(t, x)  (___bpf_reg_cnt0() + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt2(t, x, args...) (___bpf_reg_cnt1(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt3(t, x, args...) (___bpf_reg_cnt2(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt4(t, x, args...) (___bpf_reg_cnt3(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt5(t, x, args...) (___bpf_reg_cnt4(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt6(t, x, args...) (___bpf_reg_cnt5(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt7(t, x, args...) (___bpf_reg_cnt6(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt8(t, x, args...) (___bpf_reg_cnt7(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt9(t, x, args...) (___bpf_reg_cnt8(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt10(t, x, args...) (___bpf_reg_cnt9(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt11(t, x, args...) (___bpf_reg_cnt10(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt12(t, x, args...) (___bpf_reg_cnt11(args)
 + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt(args...)  ___bpf_apply(___bpf_reg_cnt, ___bpf_narg2(args))(args)

#define ___bpf_union_arg(t, x, n) \
 __builtin_choose_expr(sizeof(t) == 1, ({ union { __u8 z[1]; t x; } ___t = { .z = {ctx[n]}}; ___t.x; }), \
 __builtin_choose_expr(sizeof(t) == 2, ({ union { __u16 z[1]; t x; } ___t = { .z = {ctx[n]} }; ___t.x; }), \
 __builtin_choose_expr(sizeof(t) == 4, ({ union { __u32 z[1]; t x; } ___t = { .z = {ctx[n]} }; ___t.x; }), \
 __builtin_choose_expr(sizeof(t) == 8, ({ union { __u64 z[1]; t x; } ___t = {.z = {ctx[n]} }; ___t.x; }), \
 __builtin_choose_expr(sizeof(t) == 16, ({ union { __u64 z[2]; t x; } ___t = {.z = {ctx[n], ctx[n + 1]} }; ___t.x; }), \
       (void)0)))))

#define ___bpf_ctx_arg0(n, args...)
#define ___bpf_ctx_arg1(n, t, x)  , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt1(t, x))
```

```
#define ___bpf_ctx_arg2(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt2(t, x, args)) ___bpf_ctx_arg1(n, args)
#define ___bpf_ctx_arg3(n,
 t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt3(t, x, args)) ___bpf_ctx_arg2(n, args)
#define ___bpf_ctx_arg4(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt4(t, x, args)) ___bpf_ctx_arg3(n, args)
#define ___bpf_ctx_arg5(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt5(t, x, args)) ___bpf_ctx_arg4(n, args)
#define ___bpf_ctx_arg6(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt6(t, x, args)) ___bpf_ctx_arg5(n, args)
#define ___bpf_ctx_arg7(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt7(t, x, args)) ___bpf_ctx_arg6(n, args)
#define ___bpf_ctx_arg8(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt8(t, x, args)) ___bpf_ctx_arg7(n, args)
#define ___bpf_ctx_arg9(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt9(t, x, args)) ___bpf_ctx_arg8(n, args)
#define ___bpf_ctx_arg10(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt10(t, x, args)) ___bpf_ctx_arg9(n, args)
#define ___bpf_ctx_arg11(n,
 t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt11(t, x, args)) ___bpf_ctx_arg10(n, args)
#define ___bpf_ctx_arg12(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt12(t, x, args)) ___bpf_ctx_arg11(n, args)
#define ___bpf_ctx_arg(args...) ___bpf_apply(___bpf_ctx_arg, ___bpf_narg2(args))(___bpf_reg_cnt(args), args)

#define ___bpf_ctx_decl0()
#define ___bpf_ctx_decl1(t, x)   , t x
#define ___bpf_ctx_decl2(t, x, args...)  , t x ___bpf_ctx_decl1(args)
#define ___bpf_ctx_decl3(t, x, args...)  , t x ___bpf_ctx_decl2(args)
#define ___bpf_ctx_decl4(t, x, args...)  , t x ___bpf_ctx_decl3(args)
#define ___bpf_ctx_decl5(t, x, args...)  , t x ___bpf_ctx_decl4(args)
#define ___bpf_ctx_decl6(t, x, args...)  , t x ___bpf_ctx_decl5(args)
#define ___bpf_ctx_decl7(t, x, args...)  , t x ___bpf_ctx_decl6(args)
#define ___bpf_ctx_decl8(t, x, args...)  , t x ___bpf_ctx_decl7(args)
#define ___bpf_ctx_decl9(t, x, args...)  , t x ___bpf_ctx_decl8(args)
#define ___bpf_ctx_decl10(t,
 x, args...) , t x ___bpf_ctx_decl9(args)
#define ___bpf_ctx_decl11(t, x, args...) , t x ___bpf_ctx_decl10(args)
#define ___bpf_ctx_decl12(t, x, args...) , t x ___bpf_ctx_decl11(args)
#define ___bpf_ctx_decl(args...) ___bpf_apply(___bpf_ctx_decl, ___bpf_narg2(args))(args)

/*
* BPF_PROG2 is an enhanced version of BPF_PROG in order to handle struct
* arguments. Since each struct argument might take one or two u64 values
* in the trampoline stack, argument type size is needed to place proper number
* of u64 values for each argument. Therefore, BPF_PROG2 has different
* syntax from BPF_PROG. For example, for the following BPF_PROG syntax:
*
*   int BPF_PROG(test2, int a, int b) { ... }
```

```
*
* the corresponding BPF_PROG2 syntax is:
*
*   int BPF_PROG2(test2, int, a, int, b) { ... }
*
* where type and the corresponding argument name are separated by comma.
*
* Use BPF_PROG2 macro if one of the arguments might be a struct/union larger
* than 8 bytes:
*
*   int BPF_PROG2(test_struct_arg,
 struct bpf_testmod_struct_arg_1, a, int, b,
*     int, c, int, d, struct bpf_testmod_struct_arg_2, e, int, ret)
*   {
*       // access a, b, c, d, e, and ret directly
*       ...
*   }
*/
#define BPF_PROG2(name, args...)     \
name(unsigned long long *ctx);      \
static __always_inline typeof(name(0))     \
____##name(unsigned long long *ctx ___bpf_ctx_decl(args));   \
typeof(name(0)) name(unsigned long long *ctx)     \
{         \
 return ____##name(ctx ___bpf_ctx_arg(args));    \
}         \
static __always_inline typeof(name(0))     \
____##name(unsigned long long *ctx ___bpf_ctx_decl(args))

struct pt_regs;

#define ___bpf_kprobe_args0()          ctx
#define ___bpf_kprobe_args1(x)         ___bpf_kprobe_args0(), (void *)PT_REGS_PARM1(ctx)
#define ___bpf_kprobe_args2(x, args...) ___bpf_kprobe_args1(args), (void *)PT_REGS_PARM2(ctx)
#define ___bpf_kprobe_args3(x, args...) ___bpf_kprobe_args2(args), (void *)PT_REGS_PARM3(ctx)
#define ___bpf_kprobe_args4(x,
 args...) ___bpf_kprobe_args3(args), (void *)PT_REGS_PARM4(ctx)
#define ___bpf_kprobe_args5(x, args...) ___bpf_kprobe_args4(args), (void *)PT_REGS_PARM5(ctx)
#define ___bpf_kprobe_args6(x, args...) ___bpf_kprobe_args5(args), (void *)PT_REGS_PARM6(ctx)
#define ___bpf_kprobe_args7(x, args...) ___bpf_kprobe_args6(args), (void *)PT_REGS_PARM7(ctx)
#define ___bpf_kprobe_args8(x, args...) ___bpf_kprobe_args7(args), (void *)PT_REGS_PARM8(ctx)
#define ___bpf_kprobe_args(args...)     ___bpf_apply(___bpf_kprobe_args, ___bpf_narg(args))(args)

/*
* BPF_KPROBE serves the same purpose for kprobes as BPF_PROG for
* tp_btf/fentry/fexit BPF programs. It hides the underlying platform-specific
* low-level way of getting kprobe input arguments from struct pt_regs, and
* provides a familiar typed and named function arguments syntax and
```

```
* semantics of accessing kprobe input paremeters.
*
* Original struct pt_regs* context is preserved as 'ctx' argument. This might
* be necessary when using BPF helpers
 like bpf_perf_event_output().
*/
#define BPF_KPROBE(name, args...)       \
name(struct pt_regs *ctx);          \
static __always_inline typeof(name(0))      \
____##name(struct pt_regs *ctx, ##args);      \
typeof(name(0)) name(struct pt_regs *ctx)      \
{           \
 _Pragma("GCC diagnostic push")       \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"")     \
 return ____##name(___bpf_kprobe_args(args));      \
 _Pragma("GCC diagnostic pop")       \
}           \
static __always_inline typeof(name(0))      \
____##name(struct pt_regs *ctx, ##args)

#define ___bpf_kretprobe_args0()      ctx
#define ___bpf_kretprobe_args1(x)     ___bpf_kretprobe_args0(), (void *)PT_REGS_RC(ctx)
#define ___bpf_kretprobe_args(args...) ___bpf_apply(___bpf_kretprobe_args, ___bpf_narg(args))(args)

/*
* BPF_KRETPROBE is similar to BPF_KPROBE, except, it only provides optional
* return value (in addition to `struct pt_regs *ctx`), but no input
* arguments, because they
 will be clobbered by the time probed function
* returns.
*/
#define BPF_KRETPROBE(name, args...)       \
name(struct pt_regs *ctx);          \
static __always_inline typeof(name(0))      \
____##name(struct pt_regs *ctx, ##args);      \
typeof(name(0)) name(struct pt_regs *ctx)      \
{           \
 _Pragma("GCC diagnostic push")       \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"")     \
 return ____##name(___bpf_kretprobe_args(args));      \
 _Pragma("GCC diagnostic pop")       \
}           \
static __always_inline typeof(name(0)) ____##name(struct pt_regs *ctx, ##args)

/* If kernel has CONFIG_ARCH_HAS_SYSCALL_WRAPPER, read pt_regs directly */
#define ___bpf_syscall_args0()         ctx
#define ___bpf_syscall_args1(x)        ___bpf_syscall_args0(), (void *)PT_REGS_PARM1_SYSCALL(regs)
#define ___bpf_syscall_args2(x, args...) ___bpf_syscall_args1(args), (void *)PT_REGS_PARM2_SYSCALL(regs)
```

```
#define ___bpf_syscall_args3(x, args...) ___bpf_syscall_args2(args),
 (void *)PT_REGS_PARM3_SYSCALL(regs)
#define ___bpf_syscall_args4(x, args...) ___bpf_syscall_args3(args), (void *)PT_REGS_PARM4_SYSCALL(regs)
#define ___bpf_syscall_args5(x, args...) ___bpf_syscall_args4(args), (void *)PT_REGS_PARM5_SYSCALL(regs)
#define ___bpf_syscall_args6(x, args...) ___bpf_syscall_args5(args), (void *)PT_REGS_PARM6_SYSCALL(regs)
#define ___bpf_syscall_args7(x, args...) ___bpf_syscall_args6(args), (void *)PT_REGS_PARM7_SYSCALL(regs)
#define ___bpf_syscall_args(args...)     ___bpf_apply(___bpf_syscall_args, ___bpf_narg(args))(args)

/* If kernel doesn't have CONFIG_ARCH_HAS_SYSCALL_WRAPPER, we have to BPF_CORE_READ from
pt_regs */
#define ___bpf_syswrap_args0()          ctx
#define ___bpf_syswrap_args1(x)         ___bpf_syswrap_args0(), (void
*)PT_REGS_PARM1_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args2(x, args...) ___bpf_syswrap_args1(args), (void
*)PT_REGS_PARM2_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args3(x, args...) ___bpf_syswrap_args2(args), (void
 *)PT_REGS_PARM3_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args4(x, args...) ___bpf_syswrap_args3(args), (void
*)PT_REGS_PARM4_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args5(x, args...) ___bpf_syswrap_args4(args), (void
*)PT_REGS_PARM5_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args6(x, args...) ___bpf_syswrap_args5(args), (void
*)PT_REGS_PARM6_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args7(x, args...) ___bpf_syswrap_args6(args), (void
*)PT_REGS_PARM7_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args(args...)     ___bpf_apply(___bpf_syswrap_args, ___bpf_narg(args))(args)

/*
* BPF_KSYSCALL is a variant of BPF_KPROBE, which is intended for
* tracing syscall functions, like __x64_sys_close. It hides the underlying
* platform-specific low-level way of getting syscall input arguments from
* struct pt_regs, and provides a familiar typed and named function arguments
* syntax and semantics of accessing syscall input parameters.
*
* Original struct pt_regs * context is preserved as 'ctx' argument.
 This might
* be necessary when using BPF helpers like bpf_perf_event_output().
*
* At the moment BPF_KSYSCALL does not transparently handle all the calling
* convention quirks for the following syscalls:
*
* - mmap(): __ARCH_WANT_SYS_OLD_MMAP.
* - clone(): CONFIG_CLONE_BACKWARDS, CONFIG_CLONE_BACKWARDS2 and
*            CONFIG_CLONE_BACKWARDS3.
* - socket-related syscalls: __ARCH_WANT_SYS_SOCKETCALL.
* - compat syscalls.
*
* This may or may not change in the future. User needs to take extra measures
```

```
* to handle such quirks explicitly, if necessary.
*
* This macro relies on BPF CO-RE support and virtual __kconfig externs.
*/
#define BPF_KSYSCALL(name, args...)        \
name(struct pt_regs *ctx);         \
extern _Bool LINUX_HAS_SYSCALL_WRAPPER __kconfig;       \
static __always_inline typeof(name(0))         \
____##name(struct pt_regs *ctx, ##args);       \
typeof(name(0)) name(struct pt_regs *ctx)        \
{           \
 struct pt_regs *regs = LINUX_HAS_SYSCALL_WRAPPER
   \
        ? (struct pt_regs *)PT_REGS_PARM1(ctx)     \
        : ctx;         \
 _Pragma("GCC diagnostic push")         \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"")      \
 if (LINUX_HAS_SYSCALL_WRAPPER)         \
  return ____##name(___bpf_syswrap_args(args));      \
 else           \
  return ____##name(___bpf_syscall_args(args));      \
 _Pragma("GCC diagnostic pop")         \
}           \
static __always_inline typeof(name(0))         \
____##name(struct pt_regs *ctx, ##args)

#define BPF_KPROBE_SYSCALL BPF_KSYSCALL

/* BPF_UPROBE and BPF_URETPROBE are identical to BPF_KPROBE and BPF_KRETPROBE,
* but are named way less confusingly for SEC("uprobe") and SEC("uretprobe")
* use cases.
*/
#define BPF_UPROBE(name, args...)  BPF_KPROBE(name, ##args)
#define BPF_URETPROBE(name, args...)  BPF_KRETPROBE(name, ##args)

#endif
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```
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  limitations under the License.
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
#ifndef __BPF_HELPERS__
#define __BPF_HELPERS__

/*
* Note that bpf programs need to include either
* vmlinux.h (auto-generated from BTF) or linux/types.h
* in advance since bpf_helper_defs.h uses such types
* as __u64.
*/
#include "bpf_helper_defs.h"

#define __uint(name, val) int (*name)[val]
#define __type(name, val) typeof(val) *name
#define __array(name, val) typeof(val) *name[]
#define __ulong(name, val) enum { ___bpf_concat(__unique_value, __COUNTER__) = val } name

/*
* Helper macro to place programs, maps, license in
* different sections in elf_bpf file. Section names
* are interpreted by libbpf depending on the context (BPF programs, BPF maps,
* extern variables, etc).
* To allow use of SEC() with externs (e.g., for extern .maps declarations),
* make sure __attribute__((unused)) doesn't trigger compilation warning.
*/
#if __GNUC__ && !__clang__

/*
* Pragma macros are broken on GCC
* https://gcc.gnu.org/bugzilla/show_bug.cgi?id=55578
 * https://gcc.gnu.org/bugzilla/show_bug.cgi?id=90400
*/
#define SEC(name) __attribute__((section(name), used))

#else

#define SEC(name) \
 _Pragma("GCC diagnostic push")        \
 _Pragma("GCC diagnostic ignored \"-Wignored-attributes\"")     \
 __attribute__((section(name), used))        \
 _Pragma("GCC diagnostic pop")        \

#endif
```

```
/* Avoid 'linux/stddef.h' definition of '__always_inline'. */
#undef __always_inline
#define __always_inline inline __attribute__((always_inline))

#ifndef __noinline
#define __noinline __attribute__((noinline))
#endif
#ifndef __weak
#define __weak __attribute__((weak))
#endif

/*
* Use __hidden attribute to mark a non-static BPF subprogram effectively
* static for BPF verifier's verification algorithm purposes, allowing more
* extensive and permissive BPF verification process, taking into account
* subprogram's caller context.
*/
#define __hidden __attribute__((visibility("hidden")))

/* When utilizing vmlinux.h
 with BPF CO-RE, user BPF programs can't include
* any system-level headers (such as stddef.h, linux/version.h, etc), and
* commonly-used macros like NULL and KERNEL_VERSION aren't available through
* vmlinux.h. This just adds unnecessary hurdles and forces users to re-define
* them on their own. So as a convenience, provide such definitions here.
*/
#ifndef NULL
#define NULL ((void *)0)
#endif

#ifndef KERNEL_VERSION
#define KERNEL_VERSION(a, b, c) (((a) << 16) + ((b) << 8) + ((c) > 255 ? 255 : (c)))
#endif

/*
* Helper macros to manipulate data structures
*/

/* offsetof() definition that uses __builtin_offset() might not preserve field
* offset CO-RE relocation properly, so force-redefine offsetof() using
* old-school approach which works with CO-RE correctly
*/
#undef offsetof
#define offsetof(type, member) ((unsigned long)&((type *)0)->member)

/* redefined container_of() to ensure we use the above offsetof() macro */
#undef container_of
```

```
#define container_of(ptr, type, member)    \
 ({      \
  void
 *__mptr = (void *)(ptr);   \
  ((type *)(__mptr - offsetof(type, member))); \
 })

/*
* Compiler (optimization) barrier.
*/
#ifndef barrier
#define barrier() asm volatile("" ::: "memory")
#endif

/* Variable-specific compiler (optimization) barrier. It's a no-op which makes
* compiler believe that there is some black box modification of a given
* variable and thus prevents compiler from making extra assumption about its
* value and potential simplifications and optimizations on this variable.
*
* E.g., compiler might often delay or even omit 32-bit to 64-bit casting of
* a variable, making some code patterns unverifiable. Putting barrier_var()
* in place will ensure that cast is performed before the barrier_var()
* invocation, because compiler has to pessimistically assume that embedded
* asm section might perform some extra operations on that variable.
*
* This is a variable-specific variant of more global barrier().
*/
#ifndef barrier_var
#define
 barrier_var(var) asm volatile("" : "+r"(var))
#endif

/*
* Helper macro to throw a compilation error if __bpf_unreachable() gets
* built into the resulting code. This works given BPF back end does not
* implement __builtin_trap(). This is useful to assert that certain paths
* of the program code are never used and hence eliminated by the compiler.
*
* For example, consider a switch statement that covers known cases used by
* the program. __bpf_unreachable() can then reside in the default case. If
* the program gets extended such that a case is not covered in the switch
* statement, then it will throw a build error due to the default case not
* being compiled out.
*/
#ifndef __bpf_unreachable
# define __bpf_unreachable() __builtin_trap()
#endif
```

```
/*
* Helper function to perform a tail call with a constant/immediate map slot.
*/
#if __clang_major__ >= 8 && defined(__bpf__)
static __always_inline void
bpf_tail_call_static(void *ctx, const void *map, const __u32 slot)
{
 if
 (!__builtin_constant_p(slot))
  __bpf_unreachable();

 /*
  * Provide a hard guarantee that LLVM won't optimize setting r2 (map
  * pointer) and r3 (constant map index) from _different paths_ ending
  * up at the _same_ call insn as otherwise we won't be able to use the
  * jmpq/nopl retpoline-free patching by the x86-64 JIT in the kernel
  * given they mismatch. See also d2e4c1e6c294 ("bpf: Constant map key
  * tracking for prog array pokes") for details on verifier tracking.
  *
  * Note on clobber list: we need to stay in-line with BPF calling
  * convention, so even if we don't end up using r0, r4, r5, we need
  * to mark them as clobber so that LLVM doesn't end up using them
  * before / after the call.
  */
 asm volatile("r1 = %[ctx]\n\t"
       "r2 = %[map]\n\t"
       "r3 = %[slot]\n\t"
       "call 12"
       :: [ctx]"r"(ctx), [map]"r"(map), [slot]"i"(slot)
       : "r0", "r1", "r2", "r3", "r4", "r5");
}
#endif

enum libbpf_pin_type {
 LIBBPF_PIN_NONE,
 /* PIN_BY_NAME: pin
 maps by name (in /sys/fs/bpf by default) */
 LIBBPF_PIN_BY_NAME,
};

enum libbpf_tristate {
 TRI_NO = 0,
 TRI_YES = 1,
 TRI_MODULE = 2,
};

#define __kconfig __attribute__((section(".kconfig")))
#define __ksym __attribute__((section(".ksyms")))
```

```
#define __kptr_untrusted __attribute__((btf_type_tag("kptr_untrusted")))
#define __kptr __attribute__((btf_type_tag("kptr")))
#define __percpu_kptr __attribute__((btf_type_tag("percpu_kptr")))

#define bpf_ksym_exists(sym) ({ \
 _Static_assert(!__builtin_constant_p(!!sym), #sym " should be marked as __weak"); \
 !!sym; \
})

#define __arg_ctx __attribute__((btf_decl_tag("arg:ctx")))
#define __arg_nonnull __attribute((btf_decl_tag("arg:nonnull")))
#define __arg_nullable __attribute((btf_decl_tag("arg:nullable")))
#define __arg_trusted __attribute((btf_decl_tag("arg:trusted")))
#define __arg_arena __attribute((btf_decl_tag("arg:arena")))

#ifndef ___bpf_concat
#define ___bpf_concat(a, b) a ## b
#endif
#ifndef ___bpf_apply
#define
 ___bpf_apply(fn, n) ___bpf_concat(fn, n)
#endif
#ifndef ___bpf_nth
#define ___bpf_nth(_, _1, _2, _3, _4, _5, _6, _7, _8, _9, _a, _b, _c, N, ...) N
#endif
#ifndef ___bpf_narg
#define ___bpf_narg(...) \
 ___bpf_nth(_, ##__VA_ARGS__, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0)
#endif

#define ___bpf_fill0(arr, p, x) do {} while (0)
#define ___bpf_fill1(arr, p, x) arr[p] = x
#define ___bpf_fill2(arr, p, x, args...) arr[p] = x; ___bpf_fill1(arr, p + 1, args)
#define ___bpf_fill3(arr, p, x, args...) arr[p] = x; ___bpf_fill2(arr, p + 1, args)
#define ___bpf_fill4(arr, p, x, args...) arr[p] = x; ___bpf_fill3(arr, p + 1, args)
#define ___bpf_fill5(arr, p, x, args...) arr[p] = x; ___bpf_fill4(arr, p + 1, args)
#define ___bpf_fill6(arr, p, x, args...) arr[p] = x; ___bpf_fill5(arr, p + 1, args)
#define ___bpf_fill7(arr, p, x, args...) arr[p] = x; ___bpf_fill6(arr, p + 1, args)
#define ___bpf_fill8(arr, p, x, args...) arr[p] = x; ___bpf_fill7(arr, p + 1, args)
#define ___bpf_fill9(arr, p, x, args...)
 arr[p] = x; ___bpf_fill8(arr, p + 1, args)
#define ___bpf_fill10(arr, p, x, args...) arr[p] = x; ___bpf_fill9(arr, p + 1, args)
#define ___bpf_fill11(arr, p, x, args...) arr[p] = x; ___bpf_fill10(arr, p + 1, args)
#define ___bpf_fill12(arr, p, x, args...) arr[p] = x; ___bpf_fill11(arr, p + 1, args)
#define ___bpf_fill(arr, args...) \
 ___bpf_apply(___bpf_fill, ___bpf_narg(args))(arr, 0, args)

/*
```

```
* BPF_SEQ_PRINTF to wrap bpf_seq_printf to-be-printed values
* in a structure.
*/
#define BPF_SEQ_PRINTF(seq, fmt, args...)   \
({       \
 static const char ___fmt[] = fmt;   \
 unsigned long long ___param[___bpf_narg(args)];  \
       \
 _Pragma("GCC diagnostic push")    \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"") \
 ___bpf_fill(___param, args);    \
 _Pragma("GCC diagnostic pop")    \
       \
 bpf_seq_printf(seq, ___fmt, sizeof(___fmt),  \
        ___param, sizeof(___param));  \
})

/*
* BPF_SNPRINTF wraps the bpf_snprintf helper with variadic arguments instead of
 * an array of u64.
*/
#define BPF_SNPRINTF(out, out_size, fmt, args...)  \
({       \
 static const char ___fmt[] = fmt;   \
 unsigned long long ___param[___bpf_narg(args)];  \
       \
 _Pragma("GCC diagnostic push")    \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"") \
 ___bpf_fill(___param, args);    \
 _Pragma("GCC diagnostic pop")    \
       \
 bpf_snprintf(out, out_size, ___fmt,   \
      ___param, sizeof(___param));  \
})

#ifdef BPF_NO_GLOBAL_DATA
#define BPF_PRINTK_FMT_MOD
#else
#define BPF_PRINTK_FMT_MOD static const
#endif

#define __bpf_printk(fmt, ...)    \
({      \
 BPF_PRINTK_FMT_MOD char ____fmt[] = fmt; \
 bpf_trace_printk(____fmt, sizeof(____fmt), \
   ##__VA_ARGS__);  \
})
```

```
/*
* __bpf_vprintk wraps the bpf_trace_vprintk helper with variadic arguments
* instead of an array of u64.
*/
#define __bpf_vprintk(fmt, args...)    \
({       \
 static const char ___fmt[] = fmt;   \
 unsigned long long ___param[___bpf_narg(args)];  \
       \
 _Pragma("GCC
 diagnostic push")    \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"") \
 ___bpf_fill(___param, args);    \
 _Pragma("GCC diagnostic pop")    \
       \
 bpf_trace_vprintk(___fmt, sizeof(___fmt),  \
    ___param, sizeof(___param));  \
})

/* Use __bpf_printk when bpf_printk call has 3 or fewer fmt args
* Otherwise use __bpf_vprintk
*/
#define ___bpf_pick_printk(...) \
 ___bpf_nth(_, ##__VA_ARGS__, __bpf_vprintk, __bpf_vprintk, __bpf_vprintk, \
    __bpf_vprintk, __bpf_vprintk, __bpf_vprintk, __bpf_vprintk,  \
    __bpf_vprintk, __bpf_vprintk, __bpf_printk /*3*/, __bpf_printk /*2*/,\
    __bpf_printk /*1*/, __bpf_printk /*0*/)

/* Helper macro to print out debug messages */
#define bpf_printk(fmt, args...) ___bpf_pick_printk(args)(fmt, ##args)

struct bpf_iter_num;

extern int bpf_iter_num_new(struct bpf_iter_num *it, int start, int end) __weak __ksym;
extern int *bpf_iter_num_next(struct bpf_iter_num *it) __weak __ksym;
extern void bpf_iter_num_destroy(struct bpf_iter_num
 *it) __weak __ksym;

#ifndef bpf_for_each
/* bpf_for_each(iter_type, cur_elem, args...) provides generic construct for
* using BPF open-coded iterators without having to write mundane explicit
* low-level loop logic. Instead, it provides for()-like generic construct
* that can be used pretty naturally. E.g., for some hypothetical cgroup
* iterator, you'd write:
*
* struct cgroup *cg, *parent_cg = <...>;
*
* bpf_for_each(cgroup, cg, parent_cg, CG_ITER_CHILDREN) {
```

```
*     bpf_printk("Child cgroup id = %d", cg->cgroup_id);
*     if (cg->cgroup_id == 123)
*         break;
* }
*
* I.e., it looks almost like high-level for each loop in other languages,
* supports continue/break, and is verifiable by BPF verifier.
*
* For iterating integers, the difference betwen bpf_for_each(num, i, N, M)
* and bpf_for(i, N, M) is in that bpf_for() provides additional proof to
* verifier that i is in [N, M) range, and in bpf_for_each() case i is `int
* *`, not just `int`. So for integers
 bpf_for() is more convenient.
*
* Note: this macro relies on C99 feature of allowing to declare variables
* inside for() loop, bound to for() loop lifetime. It also utilizes GCC
* extension: __attribute__((cleanup(<func>))), supported by both GCC and
* Clang.
*/
#define bpf_for_each(type, cur, args...) for (       \
 /* initialize and define destructor */       \
 struct bpf_iter_##type ___it __attribute__((aligned(8), /* enforce, just in case */, \
         cleanup(bpf_iter_##type##_destroy))), \
 /* ___p pointer is just to call bpf_iter_##type##_new() *once* to init ___it */  \
         *___p __attribute__((unused)) = (    \
     bpf_iter_##type##_new(&___it, ##args),   \
 /* this is a workaround for Clang bug: it currently doesn't emit BTF */   \
 /* for bpf_iter_##type##_destroy() when used from cleanup() attribute */  \
     (void)bpf_iter_##type##_destroy, (void *)0);  \
 /* iteration and termination check */       \
 (((cur) = bpf_iter_##type##_next(&___it)));      \
)
#endif
 /* bpf_for_each */

#ifndef bpf_for
/* bpf_for(i, start, end) implements a for()-like looping construct that sets
* provided integer variable *i* to values starting from *start* through,
* but not including, *end*. It also proves to BPF verifier that *i* belongs
* to range [start, end), so this can be used for accessing arrays without
* extra checks.
*
* Note: *start* and *end* are assumed to be expressions with no side effects
* and whose values do not change throughout bpf_for() loop execution. They do
* not have to be statically known or constant, though.
*
* Note: similarly to bpf_for_each(), it relies on C99 feature of declaring for()
* loop bound variables and cleanup attribute, supported by GCC and Clang.
```

```
*/
#define bpf_for(i, start, end) for (        \
 /* initialize and define destructor */       \
 struct bpf_iter_num ___it __attribute__((aligned(8), /* enforce, just in case */ \
       cleanup(bpf_iter_num_destroy))),  \
 /* ___p pointer is necessary to
 call bpf_iter_num_new() *once* to init ___it */  \
       *___p __attribute__((unused)) = (     \
    bpf_iter_num_new(&___it, (start), (end)),   \
 /* this is a workaround for Clang bug: it currently doesn't emit BTF */   \
 /* for bpf_iter_num_destroy() when used from cleanup() attribute */   \
    (void)bpf_iter_num_destroy, (void *)0);    \
 ({           \
  /* iteration step */        \
  int *___t = bpf_iter_num_next(&___it);      \
  /* termination and bounds check */      \
  (___t && ((i) = *___t, (i) >= (start) && (i) < (end)));    \
 });          \
)
#endif /* bpf_for */

#ifndef bpf_repeat
/* bpf_repeat(N) performs N iterations without exposing iteration number
*
* Note: similarly to bpf_for_each(), it relies on C99 feature of declaring for()
* loop bound variables and cleanup attribute, supported by GCC and Clang.
*/
#define bpf_repeat(N) for (         \
 /* initialize and define destructor */       \
 struct bpf_iter_num ___it __attribute__((aligned(8), /* enforce,
 just in case */ \
       cleanup(bpf_iter_num_destroy))),  \
 /* ___p pointer is necessary to call bpf_iter_num_new() *once* to init ___it */  \
       *___p __attribute__((unused)) = (     \
    bpf_iter_num_new(&___it, 0, (N)),    \
 /* this is a workaround for Clang bug: it currently doesn't emit BTF */   \
 /* for bpf_iter_num_destroy() when used from cleanup() attribute */   \
    (void)bpf_iter_num_destroy, (void *)0);    \
 bpf_iter_num_next(&___it);        \
 /* nothing here  */         \
)
#endif /* bpf_repeat */

#endif
```

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Protocol Buffers for Go with Gadgets

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

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https://github.com/golang/protobuf

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* /jcommander-1-82-sources-jar/com/beust/jcommander/validators/PositiveInteger.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/validators/NoValueValidator.java
*
 /jcommander-1-82-sources-jar/com/beust/jcommander/validators/NoValidator.java
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* /jcommander-1-82-sources-jar/com/beust/jcommander/internal/Sets.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/ParametersDelegate.java

1.434 cyberdelia-go-metrics-graphite 0.0.0-20161219230853-39f87cc3b432

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

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

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

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

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

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that
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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
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
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object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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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
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```
/*
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*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

   /* disk geometry: */
 uint32_t d_secsize;  /*
 # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /* # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
 uint32_t d_secperunit;  /* # of data sectors per unit */

 /*
  * Spares (bad sector replacements) below
  * are not counted in d_nsectors or d_secpercyl.
  * Spare sectors are assumed to be physical sectors
```

```
 * which occupy space at the end of each track and/or cylinder.
 */
uint16_t d_sparespertrack; /* # of spare sectors per track */
uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders;  /* # of alt. cylinders per unit */

  /* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /*
track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /* drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */

  /* filesystem and partition information: */
uint16_t d_npartitions;         /* number of partitions in following */
uint32_t d_bbsize;         /* size of boot area at sn0, bytes */
uint32_t d_sbsize;         /* max size of fs superblock, bytes */

struct bsd_partition  {  /* the partition table */
```

```
  uint32_t p_size;        /* number of sectors in partition */
  uint32_t p_offset;      /* starting sector */
  uint32_t p_fsize;       /* filesystem basic fragment size */
  uint8_t  p_fstype; /* filesystem type, see below */
  uint8_t  p_frag;  /* filesystem fragments per block */
  uint16_t p_cpg;         /* filesystem cylinders per group */
 } __attribute__((packed))
 d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values: */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7
   3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
```

```
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /*
 removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
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1.437 go-yaml 3.0.1

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1.440 asn-one 0.5.0

1.440.1 Available under license :

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/*
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*/
```

Found in path(s):

* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/constructed/ASN1Sequence.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/annotations/ParsedBy.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/primitive/ASN1PrimitiveValue.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/annotations/ASN1.java
*
 /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/util/Checks.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/primitive/ASN1Integer.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/ASN1TagClass.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/ASN1Tag.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/ASN1Serializer.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/primitive/ASN1Boolean.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/primitive/ASN1Null.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/ASN1Primitive.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/ASN1OutputStream.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/string/ASN1String.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/ASN1InputStream.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/encodingrules/ASN1Encoder.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/string/ASN1OctetString.java
*
 /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/ASN1Encoding.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/encodingrules/ber/BERDecoder.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/ASN1ParseException.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/ASN1Constructed.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/primitive/ASN1Enumerated.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/primitive/ASN1ObjectIdentifier.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/string/ASN1BitString.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/ASN1Object.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/encodingrules/der/DERDecoder.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/encodingrules/ASN1Decoder.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/constructed/ASN1TaggedObject.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/types/constructed/ASN1Set.java
*
 /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/encodingrules/der/DEREncoder.java
* /asn-one-0-5-0-sources-jar/com/hierynomus/asn1/ASN1Parser.java

1.441 iso8601 2.1.0

1.441.1 Available under license :

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1.442 wxwidgets 3.2

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@subsection subsection_acknowledgements_past Historic Contributors

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*/
Special notes about writing wxMSW code
==========

0. Purpose

This is just a collection of various notes which should be useful to anybody
working on wxMSW codebase, please feel free to add more here.

This text assumes familiarity with both Windows programming and wxWidgets so it
doesn't cover any wxWidgets-wide issues not specific to Windows.

1. Windows headers wrappers

In no event should the Windows headers such as `<windows.h>` or `<commctrl.h>` be
included directly. So instead of `#include <...>` use `"wx/msw/wrapwin.h"` or
`wx/msw/wrapcctl.h`.

For convenience it is also possible to replace `#include <commdlg.h>` and
`<shlobj.h>` with `#include "wx/msw/wrapcdlg.h"` and `wrapshl.h` but this is less
vital.

Also notice that many convenient (albeit undocumented) functions and classes
are declared in "wx/msw/private.h", please do become familiar with this file
contents and use the utility classes and functions from
 it instead of
duplicating their functionality (which can often be done only in exception
unsafe way).

2. Utility classes
---

wxWidgets provides a couple of useful (mostly undocumented) classes making
Windows API easier to work with.

Please whenever possible do not use raw pointers for BSTR, COM interfaces
or task memory, use the appropriate RAII wrapper instead (see below).

Grep wxWidgets source code for the class name to see how it is to be used.

wxBasicString: for `BSTR`, in `"wx/msw/ole/oleutils.h"`

wxCOMPtr: simplistic smart pointer for COM interfaces, in `"wx/msw/private/comptr.h"`

wxCoTaskMemPtr: smart pointer for memory allocated/freed with `CoTaskMem{Alloc/Free}()`,

in `"wx/msw/private/cotaskmemptr.h"`

wxSafeArray: for `SAFEARRAY`, in `"wx/msw/ole/safearray.h"`

3. Windows features checks

All checks of features not present in all Windows versions must be done both at
compile-time (because, even though we use
 maximal value for WINVER in our code,
some compilers come with headers too old to declare them) and at run-time
(because wxMSW applications should run everywhere).

The functions wxGetWinVersion() (from wx/msw/private.h) and wxApp::
GetComCtl32Version() should be used to check Windows and comctl32.dll versions
respectively.

Any functions which may not be present in kernel32.dll/user32.dll/... in all
Windows versions should be resolved dynamically, i.e. using wxDynamicLibrary as
otherwise any wx application -- even not needing them at all -- would refuse to
start up on Windows versions not implementing the feature in question. As an
example, look at AlphaBlt()-related code in src/msw/dc.cpp.
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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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1.447 glob-intersection 0.2.0

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1.448 fst 2.57

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* /fst-2-57-sources-jar/org/nustaq/offheap/bytez/bytesource/CutAsciiStringByteSource.java
* /fst-2-57-sources-jar/org/nustaq/serialization/annotations/Flat.java
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* /fst-2-57-sources-jar/org/nustaq/serialization/coders/FSTMinBinDecoder.java
* /fst-2-57-sources-jar/org/nustaq/kson/KsonDeserializer.java
* /fst-2-57-sources-jar/org/nustaq/serialization/serializers/FSTStructSerializer.java
* /fst-2-57-sources-jar/org/nustaq/serialization/FSTObjenesisInstantiator.java
* /fst-2-57-sources-jar/org/nustaq/serialization/simpleapi/MinBinCoder.java
* /fst-2-57-sources-jar/org/nustaq/offheap/structs/unsafeimpl/FSTStructFactory.java
* /fst-2-57-sources-jar/org/nustaq/serialization/serializers/FSTStringBufferSerializer.java
* /fst-2-57-sources-jar/org/nustaq/serialization/annotations/OneOf.java
* /fst-2-57-sources-jar/org/nustaq/offheap/structs/unsafeimpl/FSTStructGeneration.java
* /fst-2-57-sources-jar/org/nustaq/serialization/FSTConfiguration.java
*
/fst-2-57-sources-jar/org/nustaq/serialization/FSTObjectSerializer.java
* /fst-2-57-sources-jar/org/nustaq/serialization/coders/FSTStreamDecoder.java
* /fst-2-57-sources-jar/org/nustaq/kson/KsonTypeMapper.java
* /fst-2-57-sources-jar/org/nustaq/offheap/structs/FSTStructAllocator.java
* /fst-2-57-sources-jar/org/nustaq/serialization/FSTCrossPlatformSerialzer.java
* /fst-2-57-sources-jar/org/nustaq/offheap/bytez/BasicBytez.java
* /fst-2-57-sources-jar/org/nustaq/serialization/coders/FSTBytezDecoder.java
* /fst-2-57-sources-jar/org/nustaq/offheap/structs/structtypes/StructInt.java
* /fst-2-57-sources-jar/org/nustaq/serialization/serializers/FSTStringSerializer.java
* /fst-2-57-sources-jar/org/nustaq/serialization/simpleapi/FSTCoder.java
* /fst-2-57-sources-jar/org/nustaq/offheap/structs/Align.java
* /fst-2-57-sources-jar/org/nustaq/serialization/FSTSerialisationListener.java
* /fst-2-57-sources-jar/org/nustaq/serialization/FSTObjectRegistry.java
*

/fst-2-57-sources-jar/org/nustaq/serialization/FSTDefaultClassInstantiator.java
* /fst-2-57-sources-jar/org/nustaq/serialization/FSTEncoder.java
* /fst-2-57-sources-jar/org/nustaq/kson/KsonParseException.java
* /fst-2-57-sources-jar/org/nustaq/serialization/minbin/MBRef.java
* /fst-2-57-sources-jar/org/nustaq/serialization/FSTSerializerRegistryDelegate.java
* /fst-2-57-sources-jar/org/nustaq/serialization/FSTObjectInputNoShared.java
* /fst-2-57-sources-jar/org/nustaq/kson/KsonStringOutput.java
* /fst-2-57-sources-jar/org/nustaq/offheap/FSTCodedOffheapMap.java
* /fst-2-57-sources-jar/org/nustaq/offheap/structs/NoAssist.java
* /fst-2-57-sources-jar/org/nustaq/serialization/coders/FSTBytezEncoder.java
* /fst-2-57-sources-jar/org/nustaq/kson/Kson.java
* /fst-2-57-sources-jar/org/nustaq/serialization/serializers/FSTCPEnumSetSerializer.java
* /fst-2-57-sources-jar/org/nustaq/offheap/structs/unsafeimpl/FSTByteArrayUnsafeStructGeneration.java
* /fst-2-57-sources-jar/org/nustaq/serialization/util/FSTOrderedConcurrentJobExecutor.java
*
/fst-2-57-sources-jar/org/nustaq/offheap/structs/Templated.java
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* /fst-2-57-sources-jar/org/nustaq/offheap/bytez/Bytez.java
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* /fst-2-57-sources-jar/org/nustaq/net/TCPObjectServer.java
* /fst-2-57-sources-jar/org/nustaq/serialization/FSTClazzInfo.java
* /fst-2-57-sources-jar/org/nustaq/offheap/structs/FSTArrayElementSizeCalculator.java
* /fst-2-57-sources-jar/org/nustaq/serialization/annotations/Predict.java
* /fst-2-57-sources-jar/org/nustaq/offheap/bytez/malloc/MallocBytez.java
* /fst-2-57-sources-jar/org/nustaq/kson/KsonArgTypesResolver.java
* /fst-2-57-sources-jar/org/nustaq/serialization/annotations/Conditional.java
* /fst-2-57-sources-jar/org/nustaq/serialization/util/FSTObject2IntMap.java
* /fst-2-57-sources-jar/org/nustaq/serialization/FSTObjectOutputNoShared.java
* /fst-2-57-sources-jar/org/nustaq/offheap/FSTBinaryOffheapMap.java
*
/fst-2-57-sources-jar/org/nustaq/serialization/simpleapi/DefaultCoder.java
* /fst-2-57-sources-jar/org/nustaq/kson/KsonCharOutput.java
* /fst-2-57-sources-jar/org/nustaq/serialization/serializers/FSTEnumSetSerializer.java
* /fst-2-57-sources-jar/org/nustaq/serialization/FSTClazzNameRegistry.java
* /fst-2-57-sources-jar/org/nustaq/kson/KsonCharInput.java
* /fst-2-57-sources-jar/org/nustaq/offheap/bytez/bytesource/LeftCutStringByteSource.java
* /fst-2-57-sources-jar/org/nustaq/serialization/util/FSTOutputStream.java
* /fst-2-57-sources-jar/org/nustaq/offheap/FSTAsciiStringOffheapMap.java
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* /fst-2-57-sources-jar/org/nustaq/serialization/serializers/FSTJSonUnmodifiableMapSerializer.java
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* /fst-2-57-sources-jar/org/nustaq/offheap/bytez/malloc/MMFBytez.java

1.449 tomcat 9.0.83

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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- javaee_web_services_client_1_4.xsd
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1.452 rcrowley-go-metrics 0.0.0-20201227073835-cf1acfcdf475

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

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c

lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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jar/io/netty/channel/unix/DatagramSocketAddress.java
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jar/io/netty/channel/unix/DomainSocketChannelConfig.java
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* /netty-transport-native-unix-common-4-1-118-final-sources-jar/io/netty/channel/unix/Socket.java
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jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
* /netty-transport-native-unix-common-4-1-118-final-sources-jar/io/netty/channel/unix/Buffer.java
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jar/io/netty/channel/unix/DomainDatagramChannelConfig.java
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jar/io/netty/channel/unix/SegmentedDatagramPacket.java
* /netty-transport-native-unix-common-4-1-118-final-sources-
jar/io/netty/channel/unix/DomainDatagramPacket.java
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* /netty-transport-native-unix-common-4-1-118-final-sources-jar/io/netty/channel/unix/RawUnixChannelOption.java
* /netty-transport-native-unix-common-4-1-118-final-sources-jar/io/netty/channel/unix/IntegerUnixChannelOption.java
* /netty-transport-native-unix-common-4-1-118-final-sources-jar/io/netty/channel/unix/GenericUnixChannelOption.java
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* /netty-transport-native-unix-common-4-1-118-final-sources-jar/io/netty/channel/unix/PeerCredentials.java
* /netty-transport-native-unix-common-4-1-118-final-sources-jar/netty_unix_limits.c
*
 /netty-transport-native-unix-common-4-1-118-final-sources-
jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /netty-transport-native-unix-common-4-1-118-final-sources-jar/netty_unix_util.c
* /netty-transport-native-unix-common-4-1-118-final-sources-jar/netty_unix_util.h
* /netty-transport-native-unix-common-4-1-118-final-sources-
jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /netty-transport-native-unix-common-4-1-118-final-sources-
jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
* /netty-transport-native-unix-common-4-1-118-final-sources-jar/netty_unix_limits.h

1.457 snake-yaml 2.0

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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java

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* A Base64 encoder/decoder.
*
* <p>
* This class is used to encode and decode data in Base64 format as described in RFC 1521.
*
* <p>
* Project home page: www.

* source-code.biz/base64coder/java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/Parser.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/AliasEvent.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/emitter/EmitterState.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/CommentEvent.java

* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/AliasToken.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/Property.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/Production.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/scanner/Scanner.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/composer/ComposerException.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/serializer/AnchorGenerator.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/MethodProperty.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/Yaml.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java
*

/snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/parser/ParserException.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/Token.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/composer/Composer.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java

* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/nodes/Tag.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/events/Event.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java
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* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/comments/CommentType.java
* /snakeyaml-2-0-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java

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1.459 pam 1.5.3-5ubuntu5.5

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Upstream-Name: Linux-PAM
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Source: https://github.com/linux-pam/linux-pam/releases

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c
```
===================================================================
--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c
@@ -348,6 +348,65 @@
   return PAM_SUCCESS;
}

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+
+
      /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
```

```
+                       "Unable to change UID to %d temporarily\n",
+                       pwd->pw_uid);
+             retval = PAM_SESSION_ERR;
+             goto finished;
+          }
+
+          if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+             goto finished;
+          if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+             goto finished;
+
+          if (stat(flag, &s) != 0)
+          {
+             int fd = open("/etc/legal", O_RDONLY, 0);
+             if (fd >= 0) {
+                try_to_display_fd(pamh, fd);
+                close(fd);
+             }
+             mkdir(dir, 0700);
+             f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+
+               S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+             if (f>=0) close(f);
+          }
+
+finished:
+          if (pam_modutil_regain_priv(pamh, &privs)) {
+             pam_syslog(pamh, LOG_ERR,
+                        "Unable to change UID back to %d\n", privs.old_uid);
+             retval = PAM_SESSION_ERR;
+          }
+
+          _pam_drop(flag);
+          _pam_drop(dir);
+       }
+    }
+    return retval;
+}
+
int pam_sm_open_session(pam_handle_t *pamh, int flags,
   int argc, const char **argv)
{
@@ -446,6 +505,9 @@
                        motd_dir_path_split, num_motd_dir_paths,
                        report_missing);

+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
```

```
+
 out:
   _pam_drop(motd_path_copy);
   _pam_drop(motd_path_split);
```

1.460 etcd 3.5.16

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1.461 libassuan 2.5.6-1build1

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1.462 python-certifi 2023.07.22

1.462.1 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:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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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$ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
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Theodore Ts'o
23-June-2007

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

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Ty Coon, President of Vice

That's all there is to it!
#
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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1.464 prometheus-client-model 0.4.0

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1.465 elfutils 0.190-1.1ubuntu0.1

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1.473 jackson-xc 2.9.8

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1.474 bcutil-fips 2.0.3

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1.475 otel-sdk 1.38.0

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1.478 libnsl 1.3.0-3build3

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1.480 libss 1.47.0-2.4~exp1ubuntu4.1

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

-   trivial database library - private includes
-
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Upstream-Contact: Theodore Ts'o <tytso@mit.edu>
Source: http://sourceforge.net/projects/e2fsprogs
Comment:

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

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

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

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

Preamble

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

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

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

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

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

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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

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

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

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

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled
to copy the source along with the object code.

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

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

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

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

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

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

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

That's all there is to it!
#
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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1.481 json-c 0.17-1build1

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1.482 jackson-databind 2.15.0

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Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.483 openssh 1:9.6p1-3ubuntu13.14

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
```

```
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int,
 int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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*/
```

```
/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

#include <sys/types.h>
#ifdef HAVE_POLL_H
# include <poll.h>
#elif HAVE_SYS_POLL_H
# include <sys/poll.h>
#endif

#ifndef HAVE_STRUCT_POLLFD_FD
typedef struct pollfd {
 int fd;
 short events;
 short revents;
} pollfd_t;

#ifndef POLLIN
# define POLLIN  0x0001
#endif
#ifndef POLLPRI
# define POLLPRI 0x0002
#endif
#ifndef POLLOUT
# define POLLOUT 0x0004
#endif
#ifndef POLLERR
# define POLLERR 0x0008
#endif
#ifndef POLLHUP
# define POLLHUP 0x0010
#endif
#ifndef POLLNVAL
# define POLLNVAL 0x0020
#endif

#if 0
/* the following are
 currently not implemented */
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
```

```
#define INFTIM  (-1) /* not standard */
#endif /* !HAVE_STRUCT_POLLFD_FD */

#ifndef HAVE_NFDS_T
typedef unsigned int nfds_t;
#endif

#ifndef HAVE_POLL
int   poll(struct pollfd *, nfds_t, int);
#endif

#ifndef HAVE_PPOLL
int   ppoll(struct pollfd *, nfds_t, const struct timespec *, const sigset_t *);
#endif

#endif /* !_COMPAT_POLL_H_ */
/*
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#include "includes.h"

#if !defined(HAVE_STATVFS) || !defined(HAVE_FSTATVFS)

#include <sys/types.h>

#ifdef HAVE_SYS_MOUNT_H
#include <sys/mount.h>
#endif
#ifdef HAVE_SYS_STATFS_H
#include <sys/statfs.h>
#endif
#ifdef
 HAVE_SYS_VFS_H
#include <sys/vfs.h>
```

```
#endif

#ifndef HAVE_FSBLKCNT_T
typedef unsigned long fsblkcnt_t;
#endif
#ifndef HAVE_FSFILCNT_T
typedef unsigned long fsfilcnt_t;
#endif

#ifndef ST_RDONLY
#define ST_RDONLY 1
#endif
#ifndef ST_NOSUID
#define ST_NOSUID 2
#endif

 /* as defined in IEEE Std 1003.1, 2004 Edition */
struct statvfs {
 unsigned long f_bsize; /* File system block size. */
 unsigned long f_frsize; /* Fundamental file system block size. */
 fsblkcnt_t f_blocks; /* Total number of blocks on file system in */
   /* units of f_frsize. */
 fsblkcnt_t    f_bfree; /* Total number of free blocks. */
 fsblkcnt_t    f_bavail; /* Number of free blocks available to  */
   /* non-privileged process.  */
 fsfilcnt_t    f_files; /* Total number of file serial numbers. */
 fsfilcnt_t    f_ffree; /* Total number of free file serial numbers. */
 fsfilcnt_t    f_favail; /* Number of file serial numbers available to */
   /* non-privileged process. */
 unsigned long f_fsid; /*
 File system ID. */
 unsigned long f_flag; /* BBit mask of f_flag values. */
 unsigned long f_namemax;/*  Maximum filename length. */
};
#endif

#ifndef HAVE_STATVFS
int statvfs(const char *, struct statvfs *);
#endif

#ifndef HAVE_FSTATVFS
int fstatvfs(int, struct statvfs *);
#endif
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#ifndef _BSD_MISC_H
#define _BSD_MISC_H

#include "includes.h"

char *ssh_get_progname(char *);
int seed_from_prngd(unsigned char *, size_t);

#ifndef HAVE_SETSID
#define setsid() setpgrp(0, getpid())
#endif
 /* !HAVE_SETSID */

#ifndef HAVE_SETENV
int setenv(const char *, const char *, int);
#endif /* !HAVE_SETENV */

#ifndef HAVE_SETLOGIN
int setlogin(const char *);
#endif /* !HAVE_SETLOGIN */

#ifndef HAVE_INNETGR
int innetgr(const char *, const char *, const char *, const char *);
#endif /* HAVE_INNETGR */

#if !defined(HAVE_SETEUID) && defined(HAVE_SETREUID)
int seteuid(uid_t);
#endif /* !defined(HAVE_SETEUID) && defined(HAVE_SETREUID) */

#if !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID)
int setegid(uid_t);
#endif /* !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID) */

#if !defined(HAVE_STRERROR) && defined(HAVE_SYS_ERRLIST) && defined(HAVE_SYS_NERR)
const char *strerror(int);
#endif
```

```
#if !defined(HAVE_SETLINEBUF)
#define setlinebuf(a) (setvbuf((a), NULL, _IOLBF, 0))
#endif

#ifndef HAVE_UTIMES
#ifndef HAVE_STRUCT_TIMEVAL
struct timeval {
 long tv_sec;
 long tv_usec;
}
#endif /* HAVE_STRUCT_TIMEVAL */

int utimes(const char *, struct timeval *);
#endif /* HAVE_UTIMES */

#ifndef
 AT_FDCWD
# define AT_FDCWD (-2)
#endif

#ifndef HAVE_FCHMODAT
int fchmodat(int, const char *, mode_t, int);
#endif

#ifndef HAVE_FCHOWNAT
int fchownat(int, const char *, uid_t, gid_t, int);
#endif

#ifndef HAVE_TRUNCATE
int truncate (const char *, off_t);
#endif /* HAVE_TRUNCATE */

#ifndef HAVE_STRUCT_TIMESPEC
struct timespec {
 time_t tv_sec;
 long tv_nsec;
};
#endif /* !HAVE_STRUCT_TIMESPEC */

#if !defined(HAVE_NANOSLEEP) && !defined(HAVE_NSLEEP)
# include <time.h>
int nanosleep(const struct timespec *, struct timespec *);
#endif

#ifndef HAVE_UTIMENSAT
# include <time.h>
/* start with the high bits and work down to minimise risk of overlap */
# ifndef AT_SYMLINK_NOFOLLOW
```

```
#  define AT_SYMLINK_NOFOLLOW 0x80000000
# endif
int utimensat(int, const char *, const struct timespec[2], int);
#endif /* !HAVE_UTIMENSAT */

#ifndef HAVE_USLEEP
int usleep(unsigned int useconds);
#endif

#ifndef HAVE_TCGETPGRP
pid_t tcgetpgrp(int);
#endif

#ifndef HAVE_TCSENDBREAK
int tcsendbreak(int, int);
#endif

#ifndef
 HAVE_UNSETENV
int unsetenv(const char *);
#endif

#ifndef HAVE_ISBLANK
int isblank(int);
#endif

#ifndef HAVE_GETPGID
pid_t getpgid(pid_t);
#endif

#ifndef HAVE_PSELECT
int pselect(int, fd_set *, fd_set *, fd_set *, const struct timespec *,
   const sigset_t *);
#endif

#ifndef HAVE_ENDGRENT
# define endgrent() do { } while(0)
#endif

#ifndef HAVE_KRB5_GET_ERROR_MESSAGE
# define krb5_get_error_message krb5_get_err_text
#endif

#ifndef HAVE_KRB5_FREE_ERROR_MESSAGE
# define krb5_free_error_message(a,b) do { } while(0)
#endif

#ifndef HAVE_PLEDGE
```

```
int pledge(const char *promises, const char *paths[]);
#endif

/* bsd-err.h */
#ifndef HAVE_ERR
void err(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_ERRX
void errx(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_WARN
void warn(const char *, ...) __attribute__((format(printf, 1, 2)));
#endif

#ifndef HAVE_LLABS
long long llabs(long long);
#endif

#if defined(HAVE_DECL_BZERO)
 && HAVE_DECL_BZERO == 0
void bzero(void *, size_t);
#endif

#ifndef HAVE_RAISE
int raise(int);
#endif

#ifndef HAVE_GETSID
pid_t getsid(pid_t);
#endif

#ifndef HAVE_FLOCK
# define LOCK_SH  0x01
# define LOCK_EX  0x02
# define LOCK_NB  0x04
# define LOCK_UN  0x08
int flock(int, int);
#endif

#ifdef FFLUSH_NULL_BUG
# define fflush(x) (_ssh_compat_fflush(x))
#endif

#ifndef HAVE_LOCALTIME_R
struct tm *localtime_r(const time_t *, struct tm *);
#endif

#ifndef HAVE_REALPATH
```

#define realpath(x, y) (sftp_realpath((x), (y)))
#endif

#endif /* _BSD_MISC_H */
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- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
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```
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 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*
* Created: Sat Sep 02 12:17:00 2000 cv
*
* This file contains functions for forcing opened file descriptors to
* binary mode on Windows systems.
*/

#ifndef _BSD_CYGWIN_UTIL_H
#define _BSD_CYGWIN_UTIL_H

#ifdef HAVE_CYGWIN

#undef ERROR

/* Avoid including windows headers. */
typedef void *HANDLE;
#define INVALID_HANDLE_VALUE ((HANDLE) -1)
```

```
#define DNLEN 16
#define UNLEN 256

/* Cygwin functions for which declarations are only available when including
  windows headers, so we have to define them here explicitly. */
extern HANDLE cygwin_logon_user (const struct passwd *, const char *);
extern void cygwin_set_impersonation_token (const HANDLE);

#include
 <sys/cygwin.h>
#include <io.h>

#define CYGWIN_SSH_PRIVSEP_USER (cygwin_ssh_privsep_user())
const char *cygwin_ssh_privsep_user();

int binary_open(const char *, int , ...);
int check_ntsec(const char *);
char **fetch_windows_environment(void);
void free_windows_environment(char **);
int cygwin_ug_match_pattern_list(const char *, const char *);

#ifndef NO_BINARY_OPEN
#define open binary_open
#endif

#endif /* HAVE_CYGWIN */

#endif /* _BSD_CYGWIN_UTIL_H */
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*/

#ifndef _BSD_SIGNAL_H
#define _BSD_SIGNAL_H

#include "includes.h"
```

```
#include <signal.h>

#ifndef _NSIG
# ifdef NSIG
#  define _NSIG NSIG
# else
#  define _NSIG 128
# endif
#endif

#if !defined(HAVE_STRSIGNAL)
char
 *strsignal(int);
#endif

#endif /* _BSD_SIGNAL_H */
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*/

#ifndef _NEXT_POSIX_H
#define _NEXT_POSIX_H

#ifdef HAVE_NEXT
#include <sys/dir.h>
```

```
/* NGROUPS_MAX is behind -lposix.  Use the BSD version which is NGROUPS */
#undef NGROUPS_MAX
#define NGROUPS_MAX NGROUPS

/* NeXT's readdir() is BSD (struct direct) not POSIX (struct dirent) */
#define dirent direct

/* Swap out NeXT's BSD wait() for a more POSIX compliant one */
pid_t posix_wait(int *);
#define wait(a) posix_wait(a)

/* #ifdef wrapped functions that need defining for clean compiling */
pid_t getppid(void);
void vhangup(void);
int innetgr(const char *, const char *, const char *, const char *);

/* TERMCAP */
int tcgetattr(int, struct termios *);
int tcsetattr(int, int,
 const struct termios *);
int tcsetpgrp(int, pid_t);
speed_t cfgetospeed(const struct termios *);
speed_t cfgetispeed(const struct termios *);
int cfsetospeed(struct termios *, int);
int cfsetispeed(struct termios *, int);
#endif /* HAVE_NEXT */
#endif /* _NEXT_POSIX_H */
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
```

int setresuid(uid_t, uid_t, uid_t);
#endif

1.484 libtiff 4.5.1+git230720-4ubuntu2.4

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1.486 pcre2 10.42-4ubuntu2.1

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1.487 wavpack 5.6.0-1build1

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1.489 asm 1.5.3

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1.496 bcpkix-fips 2.0.7

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

Found in path(s):
* /bcpkix-fips-2-0-7-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.497 httpcomponents-client 4.5.6

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1.498 atk 2.52.0

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/docker-alpine-3-15-zip/docker-alpine-3.15/aarch64/alpine-minirootfs-3-15-11-aarch64-tar-gz/sbin/apk: binary file matches
/docker-alpine-3-15-zip/docker-alpine-3.15/armhf/alpine-minirootfs-3-15-11-armhf-tar-gz/bin/busybox: binary file matches
/docker-alpine-3-15-zip/docker-alpine-3.15/armhf/alpine-minirootfs-3-15-11-armhf-tar-gz/sbin/apk: binary file matches
/docker-alpine-3-15-zip/docker-alpine-3.15/armv7/alpine-minirootfs-3-15-11-armv7-tar-gz/bin/busybox: binary file matches
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/docker-alpine-3-15-zip/docker-alpine-3.15/ppc64le/alpine-minirootfs-3-15-11-ppc64le-tar-gz/bin/busybox: binary file matches
/docker-alpine-3-15-zip/docker-alpine-3.15/ppc64le/alpine-minirootfs-3-15-11-ppc64le-tar-gz/sbin/apk: binary file matches
/docker-alpine-3-15-zip/docker-alpine-3.15/s390x/alpine-minirootfs-3-15-11-s390x-tar-gz/bin/busybox: binary file matches
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/docker-alpine-3-15-zip/docker-alpine-3.15/x86/alpine-minirootfs-3-15-11-x86-tar-gz/sbin/apk: binary file matches
/docker-alpine-3-15-zip/docker-alpine-3.15/x86_64/alpine-minirootfs-3-15-11-x86-64-tar-gz/bin/busybox: binary file matches
/docker-alpine-3-15-zip/docker-alpine-3.15/x86_64/alpine-minirootfs-3-15-11-x86-64-tar-gz/sbin/apk: binary file matches

Found in path(s):
* /bin/grep

1.499 redisson 3.27.1

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1.500 xerces-j 2.12.2

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1.501 httpcomponents-mime 4.5.3

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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ValidateUnwrappedValue.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/SupportedValidationTarget.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/package-info.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ValidationProvider.java
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ReportAsSingleViolation.java
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/package-info.java
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorFactory.java
* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerDescriptor.java
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ParameterDescriptor.java
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* /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidator.java
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*
 /jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/DecimalMin.java
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Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
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The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html
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Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is
 a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
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The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
 - javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd

- web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html

1.504 sed 4.9-2build1

1.504.1 Available under license :

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1.510 unixodbc 2.3.12-1ubuntu0.24.04.1

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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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1.516 libcbor 0.10.2-1.2ubuntu2

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* /redisson-tomcat-9-3-27-1-sources-jar/org/redisson/tomcat/RedissonSessionManager.java
* /redisson-tomcat-9-3-27-1-sources-jar/org/redisson/tomcat/SessionCreatedMessage.java
* /redisson-tomcat-9-3-27-1-sources-jar/org/redisson/tomcat/AttributesClearMessage.java
*
/redisson-tomcat-9-3-27-1-sources-jar/org/redisson/tomcat/JndiRedissonSessionManager.java
* /redisson-tomcat-9-3-27-1-sources-jar/org/redisson/tomcat/SessionDestroyedMessage.java
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* /redisson-tomcat-9-3-27-1-sources-jar/org/redisson/tomcat/UpdateValve.java

1.520 jackson 2.18.2

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use
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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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1.531 jsp 9.0.86

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1.532 fontconfig 2.15.0-1.1ubuntu2

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fontconfig/fc-case/CaseFolding.txt

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---

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```
/*
* Mutex operations.  Originally copied from HarfBuzz.
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---

fontconfig/src/fcfoundry.h

/*
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*/

---

fontconfig/src/fcmd5.h

/*
* This code implements the MD5 message-digest algorithm.
* The algorithm is due to Ron Rivest. This code was
* written by Colin Plumb in 1993, no copyright is claimed.
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*

```
* Equivalent code is available from RSA Data Security, Inc.
* This code has been tested against that, and is equivalent,
* except that you don't need to include two pages of legalese
* with every copy.
*
* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update
 as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/
```

---

fontconfig/src/fcmutex.h

```
/*
* Atomic int and pointer operations.  Originally copied from HarfBuzz.
*
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* Copyright  2011,2012,2013  Google, Inc.
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*/
```

---

fontconfig/src/ftglue.[ch]

```
/* ftglue.c: Glue code for compiling the OpenType code from
*          FreeType 1 using only the public API of FreeType 2
*
* By David Turner, The FreeType Project (www.freetype.org)
*
* This code is explicitely put in the public domain
*
* ================================================================================
*
* the OpenType
 parser codes was originally written as an extension to
* FreeType 1.x. As such, its source code was embedded within the library,
* and used many internal FreeType functions to deal with memory and
* stream i/o.
*
* When it was 'salvaged' for Pango and Qt, the code was "ported" to FreeType 2,
* which basically means that some macro tricks were performed in order to
* directly access FT2 _internal_ functions.
*
* these functions were never part of FT2 public API, and _did_ change between
* various releases. This created chaos for many users: when they upgraded the
* FreeType library on their system, they couldn't run Gnome anymore since
* Pango refused to link.
*
* Very fortunately, it's possible to completely avoid this problem because
* the FT_StreamRec and FT_MemoryRec structure types, which describe how
* memory and stream implementations interface with the rest of the font
* library, have always been part of the public API, and never changed.
*
* What we do
 thus is re-implement, within the OpenType parser, the few
* functions that depend on them. This only adds one or two kilobytes of
* code, and ensures that the parser can work with _any_ version
* of FreeType installed on your system. How sweet... !
*
* Note that we assume that Pango doesn't use any other internal functions
* from FreeType. It used to in old versions, but this should no longer
* be the case. (crossing my fingers).
*
*  - David Turner
*  - The FreeType Project  (www.freetype.org)
*
* PS: This "glue" code is explicitely put in the public domain
*/
```

1.533 make 4.3-4.1build2

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1.535 netty-handler 4.1.118.Final

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```
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
*
 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/address/package-info.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/traffic/package-info.java
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 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/flush/package-info.java
*
 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/flow/package-info.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
*
 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/Ciphers.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/SslProtocols.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/pcap/PcapWriteHandler.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/pcap/TCPPacket.java
*
 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/pcap/IPPacket.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/pcap/EthernetPacket.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/pcap/UDPPacket.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
*
 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
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 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/SslProvider.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
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 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java

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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/SslContext.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/PemReader.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
*
 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslInternalSession.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/address/ResolveAddressHandler.java

*
/netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilter.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java
*
 /netty-handler-4-1-118-final-sources-jar/io/netty/handler/timeout/TimeoutException.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/timeout/package-info.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/stream/package-info.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/logging/LogLevel.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/package-info.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/logging/LoggingHandler.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/timeout/WriteTimeoutHandler.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/timeout/WriteTimeoutException.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/SslHandler.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/logging/package-info.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/util/package-info.java
* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/timeout/IdleStateHandler.java
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* /netty-handler-4-1-118-final-sources-jar/io/netty/handler/ssl/ResumableX509ExtendedTrustManager.java
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* /kryo-5-6-0-sources-jar/com/esotericsoftware/kryo/io/KryoObjectOutput.java
* /kryo-5-6-0-sources-jar/com/esotericsoftware/kryo/io/ByteBufferOutputStream.java
* /kryo-5-6-0-sources-jar/com/esotericsoftware/kryo/Serializer.java
*
 /kryo-5-6-0-sources-jar/com/esotericsoftware/kryo/util/IdentityMap.java
* /kryo-5-6-0-sources-jar/com/esotericsoftware/kryo/serializers/FieldSerializer.java

* /kryo-5-6-0-sources-jar/com/esotericsoftware/kryo/io/ByteBufferOutput.java
* /kryo-5-6-0-sources-jar/com/esotericsoftware/kryo/serializers/ReflectField.java
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* /kryo-5-6-0-sources-jar/com/esotericsoftware/kryo/SerializerFactory.java
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1.538 sqlx 1.4.0

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1.540 tomli 2.0.1

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1.541 jackson-databind 2.18.2

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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1.542 libvpx 1.14.0-1ubuntu2.2

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1.543 cdparanoia 3.10.2+debian-14build3

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     <developer>
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        </snapshotRepository>
      </distributionManagement>
      <build>
        <plugins>
          <plugin>
            <artifactId>maven-assembly-plugin</artifactId>
            <version>3.4.2</version>
            <configuration>
              <descriptors>
                <descriptor>assembly.xml</descriptor>
              </descriptors>
            </configuration>
            <executions>

           <execution>
                  <id>make-assembly</id>
                  <phase>package</phase>
                  <goals>
                    <goal>single</goal>
                  </goals>
                </execution>
            </executions>
```

```
        </plugin>
      </plugins>
    </build>
  </profile>
  <profile>
    <id>ossrh</id>
    <distributionManagement>
      <snapshotRepository>
        <id>ossrh</id>
        <url>https://oss.sonatype.org/content/repositories/snapshots</url>
      </snapshotRepository>
      <repository>
        <id>ossrh</id>
        <url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
      </repository>
    </distributionManagement>
    <build>
      <plugins>
        <plugin>
          <groupId>org.apache.maven.plugins</groupId>
          <artifactId>maven-gpg-plugin</artifactId>
          <version>1.6</version>
          <executions>
            <execution>
              <id>sign-artifacts</id>
              <phase>verify</phase>
              <goals>
                <goal>sign</goal>
              </goals>
            </execution>
          </executions>
          <configuration>
            <keyname>${gpg.keyname}</keyname>
            <passphraseServerId>${gpg.keyname}</passphraseServerId>
            <gpgArguments>
              <arg>--pinentry-mode</arg>
              <arg>loopback</arg>
            </gpgArguments>
          </configuration>
        </plugin>
        <plugin>
          <groupId>org.sonatype.plugins</groupId>
          <artifactId>nexus-staging-maven-plugin</artifactId>
          <version>1.6.13</version>
          <extensions>true</extensions>
          <configuration>
            <serverId>ossrh</serverId>
            <nexusUrl>https://oss.sonatype.org/</nexusUrl>
```

```
                <autoReleaseAfterClose>true</autoReleaseAfterClose>
              </configuration>
            </plugin>
          </plugins>
        </build>
      </profile>
    </profiles>
    <dependencies>
      <dependency>
        <groupId>junit</groupId>
        <artifactId>junit</artifactId>
        <version>4.13.1</version>
        <scope>test</scope>
      </dependency>
    </dependencies>
    <build>
      <outputDirectory>classes</outputDirectory>
       <extensions>
        <extension>
          <groupId>org.apache.maven.wagon</groupId>
          <artifactId>wagon-webdav-jackrabbit</artifactId>
          <version>3.5.1</version>
        </extension>
      </extensions>
      <plugins>
        <plugin>
          <groupId>org.apache.maven.plugins</groupId>
          <artifactId>maven-help-plugin</artifactId>
          <version>3.3.0</version>
        </plugin>
        <plugin>
          <groupId>org.apache.maven.plugins</groupId>
          <artifactId>maven-jar-plugin</artifactId>
          <version>3.3.0</version>
          <configuration>
            <excludes>
              <exclude>classes-test/**</exclude>
            </excludes>
          </configuration>
        </plugin>
        <plugin>
          <groupId>org.apache.maven.plugins</groupId>

      <artifactId>maven-source-plugin</artifactId>
          <version>3.2.1</version>
          <configuration>
            <excludes>
              <exclude>src/test/*</exclude>
```

```
        </excludes>
      </configuration>
      <executions>
        <execution>
          <id>attach-sources</id>
          <phase>verify</phase>
          <goals>
            <goal>jar-no-fork</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>
      <version>3.4.1</version>
      <executions>
        <execution>
          <id>attach-javadocs</id>
          <goals>
            <goal>jar</goal>
          </goals>
        </execution>
      </executions>
      <configuration>
        <stylesheet>java</stylesheet>
        <stylesheetfile>${basedir}/src/main/javadoc/stylesheet.css</stylesheetfile>
        <doctitle>${project.name} ${project.version}</doctitle>
        <footer>Copyright 2005-2023 Frank Fock (SNMP4J.org)</footer>
        <windowtitle>${project.name} ${project.version}</windowtitle>
        <excludePackageNames>org.snmp4j.test:org.snmp4j.test.tools.console</excludePackageNames>
        <show>protected</show>
        <version />
        <author />
        <encoding>UTF-8</encoding>
      </configuration>
    </plugin>
    <plugin>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.10.1</version>
      <configuration>

    <source>8</source>
        <target>8</target>
        <release>8</release>
        <encoding>UTF-8</encoding>
      </configuration>
    </plugin>
```

```
    </plugins>
  </build>
</project>
```

Found in path(s):
* /snmp4j-2-8-18-sources-jar/META-INF/maven/org.snmp4j/snmp4j/pom.xml
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 _##  SNMP4J - UsmUserEntry.java
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 _##  SNMP4J - ResponseEvent.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/transport/TransportListener.java
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 _##  SNMP4J - MessageDispatcher.java
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 _##  SNMP4J - WorkerTask.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/util/WorkerTask.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/security/PrivacyProtocol.java
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 _##  SNMP4J - DefaultPDUFactory.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/util/DefaultPDUFactory.java
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 _##  SNMP4J - Priv3DES.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/security/Priv3DES.java
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 _##  SNMP4J - SNMPv3SecurityModel.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/security/SNMPv3SecurityModel.java
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 _##  SNMP4J - AssignableFromInteger.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/transport/tls/TlsX509CertifiedTarget.java
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* /snmp4j-2-8-18-sources-jar/org/snmp4j/log/JavaLogFactory.java
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*

/snmp4j-2-8-18-sources-jar/org/snmp4j/util/package.html
* /snmp4j-2-8-18-sources-jar/org/snmp4j/mp/package.html
* /snmp4j-2-8-18-sources-jar/org/snmp4j/security/package.html
* /snmp4j-2-8-18-sources-jar/org/snmp4j/event/package.html
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 _##  SNMP4J - AuthHMAC384SHA512.java
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1.549 kubernetes-yaml 1.6.0

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

The following artifacts are licensed by the OW2 Foundation according to the
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org.ow2.asm:asm-commons
org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.556 etcd-client-pkg 3.5.16

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1.560 src-go-pkcs12 0.6.0

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1.561 go-proxyproto 0.8.1

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1.562 multierr 1.11.0

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1.563 libcurl4t64 8.5.0-2ubuntu10.6

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1.564 jersey-media-json-jackson 2.39

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

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

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

Oracle OpenJDK

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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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http://openjdk.java.net/legal/gplv2+ce.html

OW2

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terms of http://asm.ow2.org/license.html

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

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following Apache Tomcat jars, all ASL2
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org.mortbay.jasper:apache-jsp
 org.apache.tomcat:tomcat-jasper
 org.apache.tomcat:tomcat-juli
 org.apache.tomcat:tomcat-jsp-api
 org.apache.tomcat:tomcat-el-api
 org.apache.tomcat:tomcat-jasper-el
 org.apache.tomcat:tomcat-api
 org.apache.tomcat:tomcat-util-scan
 org.apache.tomcat:tomcat-util

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

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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.566 hk2-api 2.5.0

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1.567 jaxb-runtime 2.3.1

1.568 sshj 0.39.0

1.568.1 Available under license :

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Bundle-ManifestVersion: 2
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Bnd-LastModified: 1726252963679
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Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Bundle-SymbolicName: com.hierynomus.sshj
Bundle-Version: 0.39.0
Automatic-Module-Name: com.hierynomus.sshj
Bundle-Description: SSHv2 library for Java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-Name: sshj

Found in path(s):
* /sshj-0-39-0-1-jar/META-INF/MANIFEST.MF

1.569 colorama 0.4.6

1.569.1 Available under license :

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1.570 openssl 3.0.13-0ubuntu3.6

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Jackson JSON processor

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

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1.573 tar 1.35+dfsg-3build1

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1.580 cpuid 2.3.0

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1.581 libshout 2.4.6-1build2

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Manifest-Version: 1.0
Bnd-LastModified: 1717253512851
Build-Jdk-Spec: 1.8
Bundle-Description: Java Concurrency Tools Core Library
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Concurrency Tools Core Library
Bundle-SymbolicName: org.jctools.core
Bundle-Version: 4.0.5
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: org.jctools.maps;version="4.0.5",org.jctools.util;vers
ion="4.0.5";uses:="sun.misc",org.jctools.queues;version="4.0.5",org.j
ctools.queues.atomic;version="4.0.5";uses:="org.jctools.queues",org.j
ctools.queues.atomic.unpadded;version="4.0.5";uses:="org.jctools.queu
es",org.jctools.queues.unpadded;version="4.0.5";uses:="org.jctools.qu
eues",org.jctools.counters;version="4.0.5"
Import-Package: sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-6.3.1.202206071316

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1.591 pcre 8.44

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.592 libtext-iconv-perl 1.7-8build3

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Text::Iconv Version 1.6

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Description

This module provides a Perl interface to the iconv() codeset
conversion function, as defined by the Single UNIX Specification. For
more details see the POD documentation embedded in the file Iconv.pm,
which will also be installed as Text::Iconv(3) man page.

Prerequisites

Your system should be compliant with the Single UNIX Specification or
at least provide iconv_open(), iconv() and iconv_close() functions
compliant with it.

Note that the possible conversions and the quality of the conversions
depend on the available iconv conversion tables and algorithms, which

are in most cases supplied by the operating system vendor. Some systems also allow you to build your own tables (e.g., HP-UX, Tru64 UNIX, and AIX provide the genxlt(1) command).

It is also possible to use a separate iconv library such as GNU libiconv package, just make sure that the desired library is found (see <http://www.gnu.org/directory/localization/libiconv.html>).

Building the module

Since the Single UNIX Specification only specifies an interface, several issues are left to the implementation to define, namely:

1. The supported codesets
2. The supported conversions
3. The names for the supported codesets

Please check your system documentation for the above points.

The module can be built using this sequence of commands:

```
perl Makefile.PL
make
make test
```

On some systems, the iconv functions are in libc; on others (and when you want to use a separate iconv library, such as GNU libiconv), you have to link with -liconv. Makefile.PL tries to automatically detect this. However, if your iconv library is in a non-standard path, you might have to help it. You can specify library and include paths like this:

```
perl Makefile.PL LIBS='-L/path/to/lib' INC='-I/path/to/include
```

You might also have to do this if you have multiple iconv implementations installed and want to use a specific one.

The purpose of the test scripts (run by "make test") is to check if an iconv library can be found, and if the iconv functions can be called. It is neither intended to find out which conversions are supported, nor to test the quality of the conversions provided by your iconv library. However, since the iconv functions can only be tested by calling them, which in turn requires the specification of codesets to be converted. The test scripts try some conversions which seem to be widely supported. Conversions not supported by your iconv

implementation are skipped, but for the purpose outlined above this is
no problem, as it shows that the iconv functions are working. There
is no standard way to find out which conversions are supported by an
implementation.
  This is also the reason why Text::Iconv can't provide
platform-independent support for codeset identifiers (even if it it
would be nice to have).

Installation
----

  make install

Feedback

Text::Iconv was tested on various platforms and with different iconv
implementations.

If you built Text::Iconv on a platform where you needed to specify
additional libraries, or where none of the codeset identifiers in the
test scripts are supported, please drop me a note.

Thanks

Thanks go to all those who reported bugs and suggested features.

Michael Piotrowski <mxp@dynalabs.de>

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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscLinkedQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/BaseLinkedAtomicUnpaddedQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/SpscUnboundedAtomicUnpaddedArrayQueue.java
*
/netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMapLong.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscGrowableArrayQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/package-info.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/package-info.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PaddedAtomicLong.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscLinkedAtomicQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
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/netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/counters/package-info.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/BaseSpscLinkedAtomicUnpaddedArrayQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpscAtomicArrayQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/BaseMpscLinkedAtomicUnpaddedArrayQueue.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/MpscChunkedAtomicUnpaddedArrayQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
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/netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/RangeUtil.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueue.java

* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/unpadded/SpmcAtomicUnpaddedArrayQueue.java
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/netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscUnboundedArrayQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/BaseLinkedUnpaddedQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMap.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueueUtil.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/ConcurrentSequencedCircularUnpaddedArrayQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/SpmcUnpaddedArrayQueue.java
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/netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseMpscLinkedArrayQueue.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscChunkedArrayQueue.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscChunkedArrayQueue.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/unpadded/SpscLinkedUnpaddedQueue.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/AbstractScheduledEventExecutor.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/DomainMappingBuilder.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/TypeParameterMatcher.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/svm/UnsafeRefArrayAccessSubstitution.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/collection/ShortObjectMap.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/collection/CharObjectMap.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/collection/ByteObjectHashMap.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/collection/CharCollections.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/collection/LongObjectHashMap.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/collection/ByteCollections.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/collection/IntCollections.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/collection/ShortCollections.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/ObjectUtil.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/collection/ShortObjectHashMap.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/PromiseNotifier.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/NativeLibraryLoader.java
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 /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/InternalThreadLocalMap.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/FastThreadLocal.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/IntegerHolder.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/ResourceLeakHint.java

* /netty-common-4-1-118-final-sources-jar/io/netty/util/Mapping.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/PromiseAggregator.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/ThreadDeathWatcher.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/ReflectionUtil.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/ObjectCleaner.java
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 /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/LongAdderCounter.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/SuppressForbidden.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/CleanerJava9.java

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* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/ResourceLeakTracker.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/SocketUtils.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/UnstableApi.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/Timer.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/logging/AbstractInternalLogger.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/logging/CommonsLoggerFactory.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/NetUtil.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/Attribute.java
* /netty-common-4-1-118-final-sources-jar/io/netty/util/internal/StringUtil.java
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* /netty-common-4-1-118-final-sources-jar/io/netty/util/AbstractConstant.java
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creates an executable that is a derivative of the Library (because it
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struct testcase {
  enum pipe_format format;

  int array_size; /* Size for array textures, or 0 otherwise. */
  bool is_3d;

  /* Partially filled layout of input parameters and expected results. */
  struct {
     uint32_t tile_mode : 2;
     bool tile_all : 1;
     bool ubwc : 1;
     uint32_t width0, height0, depth0;
     uint32_t nr_samples;
     struct {
        uint32_t offset;
        uint32_t pitch;
        uint32_t size0;
     } slices[FDL_MAX_MIP_LEVELS];
     struct {
        uint32_t offset;
        uint32_t pitch;
     } ubwc_slices[FDL_MAX_MIP_LEVELS];
  } layout;
};
```

bool fdl_test_layout(const struct testcase *testcase, const struct fd_dev_id *dev_id);

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKMLNOPQRSTUVWXYZ
_
0123456789
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/*
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*/

#ifndef FREEDRENO_LAYOUT_H_
#define FREEDRENO_LAYOUT_H_

#include <stdbool.h>
#include <stdint.h>

#include "util/format/u_format.h"
#include "util/u_debug.h"
#include "util/u_math.h"

#include "common/freedreno_common.h"
#include "common/freedreno_dev_info.h"

```
BEGINC;

/* Shared freedreno mipmap layout helper
*
* It does *not* attempt to track surface transitions, in particular
* about UBWC state.  Possibly it should, but
*  (a) I'm not sure if in all cases we can transparently do in-
*      place transitions (ie. a5xx textures with interleaved
*      meta and pixel data
*  (b) Even if we can, we probably can't assume that we have
*      figured out yet how to do in-place transition for every
*      generation.
*/

/* Texture Layout on a3xx:
* ----------------------
*
* Each mipmap-level contains all of it's layers (ie. all cubmap
* faces, all 1d/2d array elements, etc).  The texture sampler is
* programmed
 with the start address of each mipmap level, and hw
* derives the layer offset within the level.
*
*
* Texture Layout on a4xx+:
* ----------------------
*
* For cubemap and 2d array, each layer contains all of it's mipmap
* levels (layer_first layout).
*
* 3d textures are laid out as on a3xx.
*
* In either case, the slice represents the per-miplevel information,
* but in layer_first layout it only includes the first layer, and
* an additional offset of (rsc->layer_size * layer) must be added.
*
*
* UBWC Color Compressions (a5xx+):
* -------------------------------
*
* Color compression is only supported for tiled layouts.  In general
* the meta "flag" buffer (ie. what holds the compression state for
* each block) can be separate from the color data, except for textures
* on a5xx where it needs to be interleaved with layers/levels of a
* texture.
*/

#define FDL_MAX_MIP_LEVELS 15
```

```
struct fdl_slice {
  uint32_t offset; /* offset of first layer in slice
 */
  uint32_t size0;  /* size of first layer in slice */
};

/* parameters for explicit (imported) layout */
struct fdl_explicit_layout {
  uint32_t offset;
  uint32_t pitch;
};

/**
* Metadata shared between vk and gallium driver for interop.
*
* NOTE: EXT_external_objects requires app to check device and driver
* UUIDs to ensure that the vk and gl driver are compatible.  So for
* now we don't need any additional versioning of the metadata.
*/
struct fdl_metadata {
  uint64_t modifier;
};

/**
* Encapsulates the layout of a resource, including position of given 2d
* surface (layer, level) within.  Or rather all the information needed
* to derive this.
*/
struct fdl_layout {
  struct fdl_slice slices[FDL_MAX_MIP_LEVELS];
  struct fdl_slice ubwc_slices[FDL_MAX_MIP_LEVELS];
  uint32_t pitch0;
  uint32_t ubwc_width0;
  uint64_t layer_size;
  uint64_t ubwc_layer_size; /* in bytes */
  bool ubwc : 1;
  bool layer_first : 1; /* see above description */
  bool tile_all
 : 1;
  bool is_mutable : 1;

  /* Note that for tiled textures, beyond a certain mipmap level (ie.
   * when width is less than block size) things switch to linear.  In
   * general you should not directly look at fdl_layout::tile_mode,
   * but instead use fdl_surface::tile_mode which will correctly take
   * this into account.
   */
```

```
 uint32_t tile_mode : 2;
 /* Bytes per pixel (where a "pixel" is a single row of a block in the case
  * of compression), including each sample in the case of multisample
  * layouts.
  */
 uint8_t cpp;

 /**
  * Left shift necessary to multiply by cpp.  Invalid for NPOT cpp, please
  * use fdl_cpp_shift() to sanity check you aren't hitting that case.
  */
 uint8_t cpp_shift;

 uint32_t width0, height0, depth0;
 uint32_t mip_levels;
 uint32_t nr_samples;
 enum pipe_format format;

 uint64_t size;       /* Size of the whole image, in bytes. */
 uint32_t base_align; /* Alignment of the base address, in bytes. */

uint8_t pitchalign;  /* log2(pitchalign) */
};

static inline uint32_t
fdl_cpp_shift(const struct fdl_layout *layout)
{
 assert(util_is_power_of_two_or_zero(layout->cpp));
 return layout->cpp_shift;
}

static inline uint32_t
fdl_pitch(const struct fdl_layout *layout, unsigned level)
{
 return align(u_minify(layout->pitch0, level), 1 << layout->pitchalign);
}

#define RGB_TILE_WIDTH_ALIGNMENT  64
#define RGB_TILE_HEIGHT_ALIGNMENT 16
#define UBWC_PLANE_SIZE_ALIGNMENT 4096

static inline uint32_t
fdl_ubwc_pitch(const struct fdl_layout *layout, unsigned level)
{
 if (!layout->ubwc)
    return 0;
 return align(u_minify(layout->ubwc_width0, level), RGB_TILE_WIDTH_ALIGNMENT);
}
```

```
static inline uint32_t
fdl_layer_stride(const struct fdl_layout *layout, unsigned level)
{
  if (layout->layer_first)
     return layout->layer_size;
  else
     return layout->slices[level].size0;
}

/* a2xx is special and needs PoT alignment for mipmaps: */
static inline uint32_t
fdl2_pitch(const struct
 fdl_layout *layout, unsigned level)
{
  uint32_t pitch = fdl_pitch(layout, level);
  if (level)
     pitch = util_next_power_of_two(pitch);
  return pitch;
}

static inline uint32_t
fdl2_pitch_pixels(const struct fdl_layout *layout, unsigned level)
{
  return fdl2_pitch(layout, level) >> fdl_cpp_shift(layout);
}

static inline uint32_t
fdl_surface_offset(const struct fdl_layout *layout, unsigned level,
                   unsigned layer)
{
  const struct fdl_slice *slice = &layout->slices[level];
  return slice->offset + fdl_layer_stride(layout, level) * layer;
}

static inline uint32_t
fdl_ubwc_offset(const struct fdl_layout *layout, unsigned level, unsigned layer)
{
  const struct fdl_slice *slice = &layout->ubwc_slices[level];
  return slice->offset + layer * layout->ubwc_layer_size;
}

/* Minimum layout width to enable UBWC. */
#define FDL_MIN_UBWC_WIDTH 16

static inline bool
fdl_level_linear(const struct fdl_layout *layout, int level)
{
```

```
 if (layout->tile_all)

 return false;

 unsigned w = u_minify(layout->width0, level);
 if (w < FDL_MIN_UBWC_WIDTH)
    return true;

 return false;
}

static inline uint32_t
fdl_tile_mode(const struct fdl_layout *layout, int level)
{
 if (layout->tile_mode && fdl_level_linear(layout, level))
    return 0; /* linear */
 else
    return layout->tile_mode;
}

static inline bool
fdl_ubwc_enabled(const struct fdl_layout *layout, int level)
{
 return layout->ubwc && !fdl_level_linear(layout, level);
}

const char *fdl_tile_mode_desc(const struct fdl_layout *layout, int level);

void fdl_layout_buffer(struct fdl_layout *layout, uint32_t size);

void fdl5_layout(struct fdl_layout *layout, enum pipe_format format,
                 uint32_t nr_samples, uint32_t width0, uint32_t height0,
                 uint32_t depth0, uint32_t mip_levels, uint32_t array_size,
                 bool is_3d);

bool fdl6_layout(struct fdl_layout *layout, const struct fd_dev_info *info,
                 enum pipe_format format,
 uint32_t nr_samples, uint32_t width0,
                 uint32_t height0, uint32_t depth0, uint32_t mip_levels,
                 uint32_t array_size, bool is_3d, bool is_mutable,
                 bool force_ubwc,
                 struct fdl_explicit_layout *plane_layout);

static inline void
fdl_set_pitchalign(struct fdl_layout *layout, unsigned pitchalign)
{
 uint32_t nblocksx = util_format_get_nblocksx(layout->format, layout->width0);
 layout->pitchalign = pitchalign;
```

```
  layout->pitch0 = align(nblocksx * layout->cpp, 1 << pitchalign);
}

void fdl_dump_layout(struct fdl_layout *layout);

void fdl6_get_ubwc_blockwidth(const struct fdl_layout *layout,
                              uint32_t *blockwidth, uint32_t *blockheight);

enum fdl_view_type {
  FDL_VIEW_TYPE_1D = 0,
  FDL_VIEW_TYPE_2D = 1,
  FDL_VIEW_TYPE_CUBE = 2,
  FDL_VIEW_TYPE_3D = 3,
  FDL_VIEW_TYPE_BUFFER = 4,
};

enum fdl_chroma_location {
  FDL_CHROMA_LOCATION_COSITED_EVEN = 0,
  FDL_CHROMA_LOCATION_MIDPOINT
 = 1,
};

struct fdl_view_args {
  uint32_t chip;
  uint64_t iova;
  uint32_t base_miplevel;
  uint32_t level_count;
  uint32_t base_array_layer;
  uint32_t layer_count;
  float min_lod_clamp;
  unsigned char swiz[4];
  enum pipe_format format;
  enum fdl_view_type type;
  enum fdl_chroma_location chroma_offsets[2];
};

#define FDL6_TEX_CONST_DWORDS 16

struct fdl6_view {
  uint64_t base_addr;
  uint64_t ubwc_addr;
  uint32_t layer_size;
  uint32_t ubwc_layer_size;

  uint32_t offset;

  uint32_t width, height;
  bool need_y2_align;
```

```
   bool ubwc_enabled;
   bool is_mutable;
   uint8_t color_swap;

   enum pipe_format format;

   uint32_t descriptor[FDL6_TEX_CONST_DWORDS];

   /* Descriptor for use as a storage image as opposed to a sampled image.
    * This has a few differences for cube maps (e.g. type).
    */
   uint32_t storage_descriptor[FDL6_TEX_CONST_DWORDS];

   uint32_t pitch;

   /* pre-filled register values */
   uint32_t FLAG_BUFFER_PITCH;

   uint32_t
  RB_MRT_BUF_INFO;
   uint32_t SP_FS_MRT_REG;

   uint32_t SP_PS_2D_SRC_INFO;
   uint32_t SP_PS_2D_SRC_SIZE;

   uint32_t RB_2D_DST_INFO;

   uint32_t RB_BLIT_DST_INFO;

   uint32_t GRAS_LRZ_DEPTH_VIEW;
};

void
fdl6_view_init(struct fdl6_view *view, const struct fdl_layout **layouts,
               const struct fdl_view_args *args, bool has_z24uint_s8uint);
void
fdl6_buffer_view_init(uint32_t *descriptor, enum pipe_format format,
                      const uint8_t *swiz, uint64_t iova, uint32_t size);

void
fdl6_format_swiz(enum pipe_format format, bool has_z24uint_s8uint,
                 unsigned char *format_swiz);

enum fdl_macrotile_mode {
   FDL_MACROTILE_4_CHANNEL,
   FDL_MACROTILE_8_CHANNEL,
   /* Used internally by turnip */
```

```
  FDL_MACROTILE_INVALID = ~0,
};

/* Parameters that affect UBWC swizzling. Note that because we don't handle
* compression, this isn't a complete set of knobs. See the documentation in
* fd6_tiled_memcpy.c for a description of each one.
*/
struct fdl_ubwc_config
 {
  unsigned highest_bank_bit;
  unsigned bank_swizzle_levels;
  enum fdl_macrotile_mode macrotile_mode;
};

void
fdl6_memcpy_linear_to_tiled(uint32_t x_start, uint32_t y_start,
                            uint32_t width, uint32_t height,
                            char *dst, const char *src,
                            const struct fdl_layout *dst_layout,
                            unsigned dst_miplevel,
                            uint32_t src_pitch,
                            const struct fdl_ubwc_config *config);

void
fdl6_memcpy_tiled_to_linear(uint32_t x_start, uint32_t y_start,
                            uint32_t width, uint32_t height,
                            char *dst, const char *src,
                            const struct fdl_layout *src_layout,
                            unsigned src_miplevel,
                            uint32_t dst_pitch,
                            const struct fdl_ubwc_config *config);

ENDC;

#endif /* FREEDRENO_LAYOUT_H_ */
```

The screenshot-layer directory was created from using mesa-overlay as a template, then adding portions of the screenshotting layer from LunarG's VulkanTools repository: https://github.com/LunarG/VulkanTools/tree/main

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==========

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*/

#ifndef FREEDRENO_LRZ_LAYOUT_H_
#define FREEDRENO_LRZ_LAYOUT_H_

#include <stdint.h>

#include "freedreno_layout.h"

BEGINC;

struct fdl_lrz_layout {
  uint32_t lrz_offset;

```
 uint32_t lrz_pitch;
 uint32_t lrz_height;
 uint32_t lrz_layer_size;
 uint32_t lrz_fc_offset;
 uint32_t lrz_fc_size;
 uint32_t lrz_total_size;
};

void
fdl5_lrz_layout_init(struct fdl_lrz_layout *lrz_layout, uint32_t width,
                     uint32_t height, uint32_t nr_samples);
ENDC;

#ifdef __cplusplus
#include "common/freedreno_lrz.h"

template <chip CHIP>
static void
fdl6_lrz_layout_init(struct fdl_lrz_layout *lrz_layout,
                     struct fdl_layout *layout,
                     const struct fd_dev_info *dev_info, uint32_t lrz_offset,
                     uint32_t array_layers)
{
 unsigned width = layout->width0;
 unsigned height = layout->height0;

 /* LRZ buffer is super-sampled */
 switch (layout->nr_samples)
 {
 case 8:
   height *= 2;
   FALLTHROUGH;
 case 4:
   width *= 2;
   FALLTHROUGH;
 case 2:
   height *= 2;
   break;
 default:
   break;
 }

 unsigned lrz_pitch = align(DIV_ROUND_UP(width, 8), 32);
 unsigned lrz_height = align(DIV_ROUND_UP(height, 8), 32);

 lrz_layout->lrz_offset = lrz_offset;
 lrz_layout->lrz_height = lrz_height;
 lrz_layout->lrz_pitch = lrz_pitch;
```

```
 lrz_layout->lrz_layer_size = lrz_pitch * lrz_height * sizeof(uint16_t);

 unsigned nblocksx = DIV_ROUND_UP(DIV_ROUND_UP(width, 8), 16);
 unsigned nblocksy = DIV_ROUND_UP(DIV_ROUND_UP(height, 8), 4);

 /* Fast-clear buffer is 1bit/block */
 lrz_layout->lrz_fc_size =
   DIV_ROUND_UP(nblocksx * nblocksy, 8) * array_layers;

 /* Fast-clear buffer cannot be larger than 512 bytes on A6XX and 1024 bytes
  * on A7XX (HW limitation) */
 if (!dev_info->a6xx.enable_lrz_fast_clear ||
     lrz_layout->lrz_fc_size > fd_lrzfc_layout<CHIP>::FC_SIZE) {
   lrz_layout->lrz_fc_size
= 0;
 }

 uint32_t lrz_size = lrz_layout->lrz_layer_size * array_layers;
 if (dev_info->a6xx.enable_lrz_fast_clear ||
     dev_info->a6xx.has_lrz_dir_tracking) {
   lrz_layout->lrz_fc_offset =
      lrz_layout->lrz_offset + lrz_size;
   lrz_size += sizeof(fd_lrzfc_layout<CHIP>);
 }

 lrz_layout->lrz_total_size = lrz_size;

 uint32_t lrz_clear_height = lrz_layout->lrz_height * array_layers;
 if (((lrz_clear_height - 1) >> 14) > 0) {
   /* For simplicity bail out if LRZ cannot be cleared in one go. */
   lrz_layout->lrz_height = 0;
   lrz_layout->lrz_total_size = 0;
 }
}
#endif

#endif
```

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libfreedreno_layout = static_library(
 'freedreno_layout',
 [
   'fd5_layout.c',
   'fd6_format_table.c',
   'fd6_layout.c',
   'fd6_tiled_memcpy.cc',
   'fd6_view.c',
   'freedreno_layout.c',
   'freedreno_lrz_layout.c',
   freedreno_xml_header_files,
 ],
 include_directories : [inc_freedreno, inc_include, inc_src],
 c_args : [no_override_init_args],
 gnu_symbol_visibility : 'hidden',

```
 dependencies : [idep_nir_headers, idep_mesautil, idep_libfreedreno_common],
 build_by_default : false,
)

foreach major : ['5', '6']
 test(
  'fd' + major + '_layout',
  executable(
   'fd' + major + '_layout',
   [
    'fd_layout_test.c',
    'fd' + major + '_layout_test.c',
    freedreno_xml_header_files,
   ],
   link_with: libfreedreno_layout,
   dependencies : [idep_mesautil, idep_libfreedreno_common],
   include_directories: [
    inc_include,
    inc_src,
    inc_freedreno],
  ),
  suite : ['freedreno'],
 )
endforeach
/*
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*
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*    Rob Clark <robclark@freedesktop.org>
*/

#ifndef FD6_FORMAT_TABLE_H
#define FD6_FORMAT_TABLE_H

#include "util/format/u_format.h"
#include "util/u_math.h"

#include "common/freedreno_common.h"

#include "adreno_pm4.xml.h"
#include "adreno_common.xml.h"
#include "a6xx.xml.h"

BEGINC;

static inline enum a6xx_tex_swiz
```

```
fdl6_swiz(unsigned char swiz)
{
  STATIC_ASSERT((unsigned) A6XX_TEX_X == (unsigned) PIPE_SWIZZLE_X);
  STATIC_ASSERT((unsigned) A6XX_TEX_Y == (unsigned) PIPE_SWIZZLE_Y);
  STATIC_ASSERT((unsigned) A6XX_TEX_Z == (unsigned) PIPE_SWIZZLE_Z);
  STATIC_ASSERT((unsigned) A6XX_TEX_W == (unsigned) PIPE_SWIZZLE_W);
  STATIC_ASSERT((unsigned) A6XX_TEX_ZERO == (unsigned) PIPE_SWIZZLE_0);
  STATIC_ASSERT((unsigned) A6XX_TEX_ONE == (unsigned) PIPE_SWIZZLE_1);
  return (enum a6xx_tex_swiz) swiz;
}

enum a6xx_depth_format fd6_pipe2depth(enum
 pipe_format format);

enum a6xx_format fd6_vertex_format(enum pipe_format format) ATTRIBUTE_CONST;
enum a3xx_color_swap fd6_vertex_swap(enum pipe_format format) ATTRIBUTE_CONST;
enum a6xx_format fd6_texture_format(enum pipe_format format,
                                    enum a6xx_tile_mode tile_mode,
                                    bool is_mutable) ATTRIBUTE_CONST;
enum a3xx_color_swap fd6_texture_swap(enum pipe_format format,
                                      enum a6xx_tile_mode tile_mode,
                                      bool is_mutable) ATTRIBUTE_CONST;
enum a6xx_format fd6_color_format(enum pipe_format format,
                                  enum a6xx_tile_mode tile_mode) ATTRIBUTE_CONST;
enum a3xx_color_swap fd6_color_swap(enum pipe_format format,
                                    enum a6xx_tile_mode tile_mode,
                                    bool is_mutable) ATTRIBUTE_CONST;

ENDC;

#endif /* FD6_FORMAT_TABLE_H */
```

1.600 javax activation api 1.2.0

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

OW2

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

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

following Apache Tomcat jars, all ASL2
licensed.

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.608 jackson-databind 2.16.1

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1.609 zerossl 0.1.3

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Python/Jython

1.612 pango 1.52.1+ds-1build1

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compelled to copy the source along with the object code.

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

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

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

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

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

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

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

of these things:

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

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

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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1.614 jackson-dataformat-yaml 2.18.2

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Jackson JSON processor

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

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1.615 libcap 1:2.66-5ubuntu2.2

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

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^L

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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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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
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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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a

work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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that is part of the Library, the object code for the work may be a
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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,
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6. As an exception to the Sections above, you may also combine or
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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)

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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Sections 1 and 2 above provided that you also do one of the following:

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in object code or executable form with such
an offer, in accord with Subsection b above.)

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

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<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show
w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
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Ty Coon, President of Vice

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Version 2.1, February 1999

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes

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

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

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

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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

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<signature of Ty Coon>, 1 April 1990
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1.620 libx11 2:1.8.7-1build1

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1.622 ganymed-ssh2 262

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the mandatory attribute for it to be able to import. See \
section #3.6.5 of OSGi R4 spec.\
Why is this required?\
See https://glassfish.dev.java.net/issues/show_bug.cgi?id=5385\
By doing this, we allow user have any version of apache-commons lib\
in their application class loader hierarchy. They don't even have to\
set delegation=false in sun-web.xml! This is the true advantage of\
using OSGi.
Sahoo.\
\
-->\
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1.632 gorm-gorm 1.25.11

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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/SizeClassesMetric.java
* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/IntPriorityQueue.java
*
 /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/SizeClasses.java
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* /netty-buffer-4-1-118-final-sources-jar/io/netty/buffer/ReadOnlyUnsafeDirectByteBuf.java
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* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
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* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
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* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
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* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
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* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java
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 /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Zstd.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/Brotli.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
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* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
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* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java

* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/package-info.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/ByteToMessageCodec.java
*
 /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /netty-codec-4-1-107-final-sources-
jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
*
 /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/EncoderException.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
*
 /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
*
 /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/bytes/package-info.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
*

/netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
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*/
/**
* A decoder that splits the received {@link ByteBuf}s dynamically by the
* value of the length field in the message.  It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
*
 <p>
* {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD".  By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field.  Therefore, it can be decoded with the simplistic parameter
* combination.
* <pre>
* <b>lengthFieldOffset</b>   = <b>0</b>
* <b>lengthFieldLength</b>   = <b>2</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0 (= do not strip header)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content
```

```
 |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>.  In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
 * </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
*     represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples.  However, in some protocols, the
* length field represents the length of the whole message, including the
* message header.  In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>.  Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   =  0
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip =  0
*
* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual
 Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
```

```
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                 AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
 |  0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                 AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C |  0xCAFE  | "HELLO, WORLD" |      | 0x00000C |  0xCAFE  | "HELLO,
 WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
```

```
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 +
 LEN)
*
* BEFORE DECODE (16 bytes)                  AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
 the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                  AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/

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* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
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* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
*
 /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/DateFormatter.java
* /netty-codec-4-1-107-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java

1.636 prometheus-common 0.32.1

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##
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1.645 snake-yaml 2.3

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Manifest-Version: 1.0
Automatic-Module-Name: org.snakeyaml.engine.v2
Bnd-LastModified: 1618842641913
Build-Jdk: 11.0.10

Built-By: somov
Bundle-Description: Core YAML 1.2 parser and emitter for Java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: SnakeYAML Engine
Bundle-SymbolicName: org.snakeyaml.engine
Bundle-Version: 2.3.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.snakeyaml.engine.v2.api;version="2.3",org.snakeyam
l.engine.v2.api.lowlevel;version="2.3",org.snakeyaml.engine.v2.commen
ts;version="2.3",org.snakeyaml.engine.v2.common;version="2.3",org.sna
keyaml.engine.v2.composer;version="2.3",org.snakeyaml.engine.v2.const
ructor;version="2.3",org.snakeyaml.engine.v2.emitter;version="2.3",or
g.snakeyaml.engine.v2.env;version="2.3",org.snakeyaml.engine.v2.event
s;version="2.3",org.snakeyaml.engine.v2.exceptions;version="2.3",org.
snakeyaml.engine.v2.nodes;version="2.3",org.snakeyaml.engine.v2.parse
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.snakeyaml.engine.v2.resolver;version="2.3",org.snakeyaml.engine.v2.s
canner;version="2.3",org.snakeyaml.engine.v2.serializer;version="2.3"
,org.snakeyaml.engine.v2.tokens;version="2.3"
Import-Package: org.snakeyaml.engine.v2.api;version="[2.3,3)",org.snak
eyaml.engine.v2.comments;version="[2.3,3)",org.snakeyaml.engine.v2.co
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,org.snakeyaml.engine.v2.nodes;version="[2.3,3)",org.snakeyaml.engine
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snakeyaml.engine.v2.scanner;version="[2.3,3)",org.snakeyaml.engine.v2
 .serializer;version="[2.3,3)",org.snakeyaml.engine.v2.tokens;version=
"[2.3,3)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /snakeyaml-engine-2-3-jar/META-INF/MANIFEST.MF
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* /snakeyaml-engine-2-3-jar/META-INF/maven/org.snakeyaml/snakeyaml-engine/pom.xml

1.646 jackson-jaxrs 2.9.9

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1.647 base-files 13ubuntu10.3

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

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

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

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

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

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a
Package may be copied, such that the Copyright Holder maintains some
semblance of artistic control over the development of the package,
while giving the users of the package the right to use and distribute
the Package in a more-or-less customary fashion, plus the right to make
reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis
of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent
notice in each changed file stating how and
when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable
form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided
that you do not advertise this Package as a
product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines
(or comparably compiled subroutines in other
languages) supplied by you and linked into this Package in order to
emulate subroutines and variables of the language defined by this
Package shall not be considered part of this Package, but are the
equivalent of input as in Paragraph 6, provided these subroutines do
not change the language in any way that would cause it to fail the
regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always
permitted provided that the use of this Package is embedded; that is,
when no overt attempt is made to make this Package's interfaces visible
to the end user of the commercial distribution. Such use shall not be
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The End

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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.

This license, the Library General Public License, applies to some
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other libraries whose authors decide to use it. You can use it for
your libraries, too.

When

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

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

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

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

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

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

The reason we have a separate public license for some libraries is that

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

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

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

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

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

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

The "Library", below,

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

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

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

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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
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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:

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

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

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

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

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

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
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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

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

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

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

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

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

That's all there is to it!
This is the Debian prepackaged version of the Debian Base System
Miscellaneous files. These files were written by Ian Murdock
<imurdock@debian.org> and Bruce Perens <bruce@pixar.com>.

This package was first put together by Bruce Perens <Bruce@Pixar.com>,
from his own sources.

The GNU Public Licenses in /usr/share/common-licenses were taken from
ftp.gnu.org and are copyrighted by the Free Software Foundation, Inc.

The Artistic License in /usr/share/common-licenses is the one coming
from Perl and its SPDX name is "Artistic License 1.0 (Perl)".

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On Debian systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL'.

1.648 go-jose 4.1.3

1.648.1 Available under license :

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"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership
of such entity.

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"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation, and conversions to other media types.

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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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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
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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
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 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.

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

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

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

least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

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

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Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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which the executable runs, unless that component itself accompanies
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The

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```
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*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */
```

```
  /* disk geometry: */
uint32_t d_secsize;  /*
# of bytes per sector */
uint32_t d_nsectors;  /* # of data sectors per track */
uint32_t d_ntracks;  /* # of tracks per cylinder */
uint32_t d_ncylinders;  /* # of data cylinders per unit */
uint32_t d_secpercyl;  /* # of data sectors per cylinder */
uint32_t d_secperunit;  /* # of data sectors per unit */

/*
 * Spares (bad sector replacements) below
 * are not counted in d_nsectors or d_secpercyl.
 * Spare sectors are assumed to be physical sectors
 * which occupy space at the end of each track and/or cylinder.
 */
uint16_t d_sparespertrack; /* # of spare sectors per track */
uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders;  /* # of alt. cylinders per unit */

  /* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
```

```
 uint32_t d_trkseek;  /*
 track-to-track seek, usec */
 uint32_t d_flags;  /* generic flags */
 uint32_t d_drivedata[5];  /* drive-type specific information */
 uint32_t d_spare[5];  /* reserved for future use */
 uint32_t d_magic2;  /* the magic number (again) */
 uint16_t d_checksum;  /* xor of data incl. partitions */

   /* filesystem and partition information: */
 uint16_t d_npartitions;        /* number of partitions in following */
 uint32_t d_bbsize;         /* size of boot area at sn0, bytes */
 uint32_t d_sbsize;         /* max size of fs superblock, bytes */

 struct bsd_partition  {  /* the partition table */
  uint32_t p_size;         /* number of sectors in partition */
  uint32_t p_offset;       /* starting sector */
  uint32_t p_fsize;        /* filesystem basic fragment size */
  uint8_t  p_fstype; /* filesystem type, see below */
  uint8_t  p_frag;  /* filesystem fragments per block */
  uint16_t p_cpg;         /* filesystem cylinders per group */
 } __attribute__((packed))
 d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values: */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
```

```
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7
   3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /*
 removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
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1.652 jaxb-core 3.0.2

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* /sshj-0-38-0-sources-1-jar/com/hierynomus/sshj/transport/cipher/StreamCiphers.java
* /sshj-0-38-0-sources-1-jar/com/hierynomus/sshj/transport/cipher/GcmCiphers.java
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* /sshj-0-38-0-sources-1-jar/net/schmizz/sshj/sftp/RemoteResource.java
* /sshj-0-38-0-sources-1-jar/net/schmizz/sshj/xfer/LocalDestFile.java
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* /sshj-0-38-0-sources-1-jar/net/schmizz/sshj/sftp/RenameFlags.java
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* /sshj-0-38-0-sources-1-jar/net/schmizz/sshj/userauth/password/Resource.java
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* /sshj-0-38-0-sources-1-jar/net/schmizz/sshj/connection/channel/direct/AbstractDirectChannel.java
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* /sshj-0-38-0-sources-1-jar/net/schmizz/sshj/transport/kex/ECDHNistP.java
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
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lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
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lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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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
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lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c

lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
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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
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kprop/kpropd_rpc.c
kprop/kproplog.c

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Found in path(s):
* /webapp-runner-main-9-0-86-0-sources-jar/webapp/runner/launch/Main.java

1.658 apache-log4j 2.17.1

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1.659 grpc-gateway 2.27.1

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1.660 gsettings-desktop-schemas 46.1-0ubuntu1

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1.666 pytz 2025.2

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- javaee_web_services_client_1_4.xsd
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- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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1.675 bouncycastle-fips 1.0.2.3

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1.676 cast 1.10.0

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1.677 protobuf 1.5.4

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1.678 grep 3.11-4build1

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* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/AbstractDnsOptPseudoRrRecord.java
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* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
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* /netty-codec-dns-4-1-118-final-sources-jar/io/netty/handler/codec/dns/DnsRecordEncoder.java
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1.683 go-systemd 22.3.2

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1.684 slf4j 1.7.32

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* /jul-to-slf4j-1-7-32-sources-jar/org/slf4j/bridge/SLF4JBridgeHandler.java

1.685 jaxb-core 2.3.0

1.686 activation-api 1.2.0

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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*/

Found in path(s):

* /servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/SslReverseProxyMode.java
* /servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/ServletURI.java
* /servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/ServletURIPool.java
* /servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/HttpServlet.java
*
 /servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/AbstractHttpServlet.java
* /servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/TlsHelper.java
* /servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/SimpleLruCache.java
* /servlet-api-4-0-0-sources-6-jar/org/xipki/http/servlet/package-info.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /servlet-api-4-0-0-sources-6-jar/META-INF/maven/org.xipki/servlet-api/pom.xml

1.692 libcheck 1.24.2-1ubuntu0.1

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1.698 xorg 1:7.7+23ubuntu3

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1.699 cpp 14.2.0-4ubuntu2~24.04

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
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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-14 source package is taken from the git gcc-14-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-14	libgnat-14	gnat-14-doc
C	gcc-14		gcc-14-doc
C++	g++-14	libstdc++6	libstdc++6-14-doc
D	gdc-14		
Fortran 95	gfortran-14	libgfortran5	gfortran-14-doc
Go	gccgo-14	libgo0	
Objective C	gobjc-14	libobjc4	
Objective C++	gobjc++-14		
Modula-2	gm2-14	libgm2	
Rust	gccrs-14		

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++6-14-dbg		libstdc++6-14-pic
D	libphobos-14-dev			

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-14-base	Base files common to all compilers
gcc-14-soft-float	Software floating point (ARM only)
gcc-14-source	The sources with patches

Ada:

libgnat-util14-dev, libgnat-util14	GNAT version library

C:

cpp-14, cpp-14-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,
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- libatomic
- libdecnumber
- libgm2
- libgomp
- libgrust
- libitm
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- libstdc++-v3
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Change for long double by Jakub Jelinek <jj@ultra.linux.cz>
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fmodq.c, frexpq.c, hypotq.c, ilogbq.c, isnanq.c, jnq.c, ldexpq.c,
logbq.c, modfq.c, nearbyintq.c, nextafterq.c, powq.c, remainderq.c,
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tanhq.c, tanq.c, tanq_kernel.c:

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gcc/go/gofrontend, libgo:

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D:
gdc-14 GNU D Compiler
libphobos-14-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
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The Phobos standard runtime library:
- libphobos/*

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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.

5. A program that contains no derivative of any portion of the

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

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

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

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

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

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.

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

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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.

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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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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.

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1.707 jquery-goodies 12-4

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FUTURE ENHANCEMENTS...

data.handle config
automagic proxy offsets
document::mouseleave?

Changes in Version 1.5, Released 2009-03-24

- Added "dragstart" and "dragend" special event configurations which prevents default event bindings in Internet Explorer (some events were firing twice).

- Added a custom "ondragstart" handler for IE only to suppress image/text drags

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Changes in Version 1.4, Released 2009-01-26

- Fixed a mistake where the "which" property was not correctly checked.

- Changed the initial test for
checking if a drag is already underway (within
the shared handler) to an internal property instead of checking for the document

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Changes in Version 1.3, Released 2009-01-26

- Now Compatable with jQuery 1.3.x and jQuery 1.2.x

- Fixed a problem with the return value of event handlers. Now use the property
"event.result" instead of the (obsolete) return value of "jQuery.event.handle"

- Fixed the logic for determining the proxy element returned from "dragstart",
The document was being set as the proxy when dragstart returned undefined, and
this caused an error in the offset method in jQuery 1.3

- Added "document.selection.empty()" to the private static "selectable" function
Thanks Jos Mata.

- Added a "which" property to the "jQuery.event.special.drag" object, which
defines the mouse button to "accept" on mousedown to initialize draggging. The
default value is "1" (left mouse button), this attribute is
customizable through
the "bind" method using the optional "data" argument.

Changes in Version 1.2, Released 2008-10-06

- Moved the drag init checks to avoid the switch statement when possible

- Made the drag.handler function private

- Renamed private data properties: dist2 -> distance, x -> pageX, y -> pageY
This will theoretically help reduce the gzipped file size.

- Moved distance squared calculation to the "setup" function from "mousdown"
because there is no reason to calculate this value more than once.

- fixed a bug where "event.dragProxy" was being set one "mousemove" event late

- added local variable refs for "$.event" and "$.event.special" to reduce file
size when minified/packed, and speed up execution.

- added private "squared" function to reduce file size/lines.

- added private "hijack" function to reduce file size/lines.

- change the drag method to trigger the "drag" handler instead
of "mousedown"
which was an artifact from an earlier version of the code.

Changes in Version 1.1, Released 2008-10-03

- Fixed a bug where the text-selection attributes that were disabled on
"mousedown" were not being enabled on "mouseup" unless the element was dragged.

- Now restoring the event.target property that is captured on "mousedown" before
handling "dragstart" events. This fixes buggy behavior involving "dragstart"
and the "distance" setting, and attempting to capture "handle" elements.

- Modified the handler logic for the "dragstart" return value. The stack can
now continue directly into the "drag" handler call from "dragstart" instead of
waiting for the next "mousemove" event to fire.

- Added a "not" property to the "jQuery.event.special.drag" object which allows
the prevention of drag behavior for any event.target element that matches the
property value (selector). The default value
is ":input" and when jQuery 1.3 is
released, this attribute will also be customizable through the "bind" method
using the optional "data" argument. Thanks to Elijah Insua for suggesting this
feature.

- Changed binding of "mousemove" and "mouseup" events from "document.body" to
"document"... This fixes buggy behavior when the body element does not cover
the entire window. Thanks to Jonah Fox (weepy) and Elijah Insua for pointing
out this bug.

Changes in Version 1.0, Released 2008-08-08

- Initial Release
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Changes in Version 1.2, 2009-03-16

- added try/catch block in the private hijak function to fix an error with IE.
The original event object disappears when using setTimeout, so hijacking an
event and handling a custom event later, was throwing an exception whenever
the handler would return false, because "preventDefault" and "stopPropagation"
were automatically being called on the "originalEvent." Thanks to Charles,
Vivekanand Mishra, and Steen Nielsen, for helping uncover this issue.

Changes in Version 1.1, 2009-01-26

- Now Compatable with jQuery 1.3.x and jQuery 1.2.x

- added private hijack
function to handle custom event handlers and find the
correct return value in jQuery 1.2.x as well as jQuery 1.3.x

- reworded the "tolerate" loop to save some lines.

- Made the "tolerate" function private.

- renamed the private "$elements" property to "$targets"

- Modified "$.dropManage" to only set certain options, instead of extending the
whole "$.event.special.drop" object, to prevent accidental overwrite.

- added local variable refs for "$.event" and "$.event.special" to reduce file
size when minified/packed, and speed up execution.

Changes in Version 1.0, Released 2008-08-08

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---
short-description: Patents, Licenses and legal F.A.Q.
...

Legal information

Installer, default installation

The installer (Microsoft Windows and MacOSX) and the default
installation (GNU/Linux) contain and install the minimal default
installation. At install time or later, the downloading of optional
components is also possible, but read on for certain legal cautions you
might want to take. All downloads are from the
gstreamer.freedesktop.org website.

Licensing of GStreamer

GStreamer minimal default installation only contains packages which
are licensed under the [GNU LGPL license
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Therefore, it is possible to use GStreamer to build applications that are
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modifications purposes. Only the pieces of GStreamer that are under the
LGPL need to be kept under the LGPL, and the corresponding source code
must be distributed along with the application (or an irrevocable offer
to do so for at least three years from distribution). Please consult
section 6 of the
[LGPL](http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html) for
further details as to what the corresponding source code must contain.

Some portions of the minimal default installation may be under
different licenses, which are both more liberal than the LGPL (they are
less strict conditions for granting the license) and compatible with the
LGPL.
 This is advised locally.

Optional packages

There are two types of optional packages (GPL and Patented), which are under a different license or have other issues concerning patentability (or both).

GPL code

Part of the optional packages are under the GNU GPL [v2](http://www.gnu.org/licenses/old-licenses/gpl-2.0.html). This means that you cannot link the GPL software in a program unless the same program is also under the GPL, but you are invited to seek competent advice on how this works in your precise case and design choices. GPL is called strong copyleft because the condition to distributed under the same license has the largest possible scope and extends to all derivative works.

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maintenance agreement with a company or entity that is in that business.

Licensing of code contributed to GStreamer itself

GStreamer is a plugin-based framework licensed under the LGPL. The
reason for this choice in licensing is to ensure that everyone can use
GStreamer to build applications using licenses of their choice.

To keep this policy viable, the GStreamer community has made a few licensing
rules for code to be included in GStreamer's core or GStreamer's
official modules, like our plugin packages.

We require that all code going into our core packages is LGPL.

For the plugin code, we require the <B>use of the LGPL
for all plugins
written from scratch or linking to external libraries</B>. The only
exception to this is when plugins contain older code under the BSD and
MIT license. They can use those licenses instead and will still be
considered for inclusion, we do prefer that all new code written
though is at least dual licensed LGPL. We do not accept GPL code to be
added to our plugins modules, but we do accept LGPL-licensed plugins
using an external GPL library for some of our plugin modules. The
reason we demand plugins be licensed under the LGPL, even when they
are using a GPL library, is that other developers might want to use
the plugin code as a template for plugins linking to non-GPL
libraries. We also accept dual licensed plugins for inclusion as long
as one of the licenses offered for dual licensing is the LGPL.

We also do not allow plugins under any license into our core,base
or good packages if they have known patent issues associated with
them. This means that even a contributed
LGPL/MIT licensed
implementation of something which there is a licensing body claiming
fees for, those plugins would need to go into our gst-plugins-ugly
module.

All new plugins, regardless of licensing or patents
tend to have to go through a period in our incubation module,
gst-plugins-bad before moving to ugly, base or good.

Frequently Asked Questions

What licenses are there?

GStreamer binaries contain software under various licenses. See above.

How does this relate to the packaging system?

The packaging is only a more convenient way to install software and decide what's good for you. GStreamer is meant to be modular, making use of different modules, or plugins, that perform different activities.

We provide some of them by default. Others are provided as an additional download, should you elect to do so. You could do the same by finding and downloading the same packages for your own platform. So it is entirely up to you to decide what to do.

Also, we note that
GStreamer elements are divided into different packages, roughly following the licensing conditions attached to the same. For instance, the codecs-gpl package contains GPL licensed codecs. All the packages installed by default, conversely, are licensed under the LGPL or a more liberal license. This division is provided only for ease of reference, but we cannot guarantee that our selection is 100% correct, so it is up to the user to verify the actual licensing conditions before distributing works that utilize GStreamer.

Can I / must I distribute GStreamer along with my application?

You surely can. All software is Free/Open Source software, and can be distributed freely. You are not **required** to distribute it. Only, be reminded that one of the conditions for you to use software under certain licenses to make a work containing such software, is that you also distribute the complete source code of the original code (or of the modified code, if you have modified it). There are alternative ways
to comply with this obligation, some of them do not require any actual distribution of source code, but since GStreamer contains the entire source code, you might want to include it (or the directories containing the source code) with your application as a safe way to comply with this requirement of the license.

What happens when I modify the GStreamer's source code?

You are invited to do so, as the licenses (unless you are dealing with proprietary bits, but in that case you will not find the corresponding source code) so permit. Be reminded though that in that case you need to also provide the complete corresponding source code (and to preserve the same license, of course). You might also consider to push your modifications upstream, so that they are merged into the main branch of development if they are worth it and will be maintained by the GStreamer project and not by you individually. We invite you not to fork the code, if at all possible. The Cerbero build system

has a
"bundle-source" command that can help you create a source bundle containing all of the complete corresponding machine readable source code that you are required to provide.

How does licensing relate to software patents? What about software patents in general?

This is a tricky question. We believe software patents should not exist, so that by distributing and using software on a general purpose machine you would not violate any of them. But the inconvenient truth is that they do exist.

Software patents are widely available in the USA. Even though they are formally prohibited in the European Union, they indeed are granted by the thousand by the European Patent Office, and also some national patent offices follow the same path. In other countries they are not available.

Since patent protection is a national state-granted monopoly, distributing software that violates patents in a given country could be entirely safe if done in another country. Fair use exceptions also exist.
So we cannot advise you whether the software we provide would be considered violating patents in your country or in any other country, but that can be said for virtually all kinds of software. Only, since we deal with audio-video standards, and these standards are by and large designed to use certain patented technologies, it is common wisdom that the pieces of software that implement these standards are sensitive in this respect.

This is why GStreamer has taken a modular approach, so that you can use a Free plugins or a proprietary, patent royalty bearing, plugin for a given standard.

What about static vs. dynamic linking and copyleft?

We cannot provide one single answer to that question. Since copyright in software works as copyright in literature, static linking means basically that the programmer includes bits of code of the original library in the bytecode at compile time. This amounts to make derivative code of the library without conceivable exceptions, so you need
a
permission from the copyright holders of the library to do this.

A widespread line of thinking says that dynamic linking is conversely not relevant to the copyleft effect, since the mingling of code in a larger work is done at runtime. However, another equally authoritative line of thought says that only certain type of dynamic linking is not

copyright relevant. Therefore, using a library that is specifically
designed to be loaded into a particular kind of software, even through
API, requires permission by the copyright holder of the library when
the two pieces are distributed together.

In all cases, since most of the software we include in GStreamer is under
the LGPL, this permission is granted once for all, subject to compliance
with the conditions set out by it. Therefore, the problem only arises
when you want to use GPL libraries to make non-GPL applications, and you
need to audit your software in that case to make sure that what you do
is not an infringement. This is why we
 have put the GPL libraries in a
separate set of optional components, so you have a clearer view of what
is safely clear for use, and what might need better investigation on a
case-by-case basis.

Please be reminded that even for LGPL, the recipient of the software
must be in a position to replace the current library with a modified
one, and to that effect some conditions apply, among which that for
static linking you must also provide the complete toolchain required to
relink the library (any data and utility programs needed for
reproducing the executable from it, except the major components) and
that the license of the conditions of the resulting program must allow
decompilation to debug modifications to the library.

Licensing applications under the GNU GPL using GStreamer

The licensing of GStreamer is no different from a lot of other libraries out
there like GTK+ or glibc:
we use the [LGPL](http://www.fsf.org/licenses/lgpl.html).

What complicates things with regards to GStreamer
 is its plugin-based design
and the heavily patented and proprietary nature of many multimedia codecs.
While patents on software are currently only allowed in a small minority of
world countries (the US and Australia being the most important of those), the
problem is that due to the central place the US hold in the world economy and
the computing industry, software patents are hard to ignore wherever you are.

Due to this situation, many companies, including major GNU/Linux distributions,
get trapped in a situation where they either get bad reviews due to lacking
out-of-the-box media playback capabilities (and attempts to educate the
reviewers have met with little success so far), or go against their
own - and the free software movement's - wish to avoid proprietary software.

Due to competitive pressure, most choose to add some support. Doing that
through pure free software solutions would have them risk heavy litigation and
punishment from patent owners. So when the decision is made

to include support
for patented codecs, it leaves them the choice of either using special proprietary applications, or try to integrate the support for these codecs through proprietary plugins into the multimedia infrastructure provided by GStreamer. Faced with one of these two evils the GStreamer community of course prefer the second option.

The problem which arises is that most free software and open source applications developed use the GPL as their license. While this is generally a good thing, it creates a dilemma for people who want to put together a distribution. The dilemma they face is that if they include proprietary plugins in GStreamer to support patented formats in a way that is legal for them, they do risk running afoul of the GPL license of the applications. We have gotten some conflicting reports from lawyers on whether this is actually a problem, but the official stance of the FSF is that it is a problem.
We view the FSF as an authority on this matter, so we are inclined
to follow
their interpretation of the GPL license.

So what does this mean for you as an application developer? Well, it means **you have to make an active decision on whether you want your application to be used together with proprietary plugins or not**. What you decide here will also influence the chances of commercial distributions and Unix vendors shipping your application. The GStreamer community suggest you license your software using a license that will allow non-free, patent implementing or non-GPL compatible plugins to be bundled with GStreamer and your applications, in order to make sure that as many vendors as possible go with GStreamer instead of less free solutions. This in turn we hope and think will let GStreamer be a vehicle for wider use of free formats like the [Xiph.org](http://www.xiph.org/) formats.

If you do decide that you want to allow for non-free plugins to be used with your application you have a variety of choices. One of the simplest is using licenses
like LGPL, MPL or BSD for your application instead of the GPL.
Or you can add a exceptions clause to your GPL license stating that you except GStreamer plugins from the obligations of the GPL.

A good example of such a GPL exception clause would be, using the Totem video player project as an example:

*The developers of the Totem video player hereby grants permission for non-GPL compatible GStreamer plugins to be used and distributed together with GStreamer and Totem. This permission is above and beyond the permissions granted by the GPL license by which Totem is covered. If you modify this code, you may extend this exception to your version of the code, but you are not obligated to do so. If you do not wish to do so, delete this exception

statement from your version.*

Our suggestion among these choices is to use the LGPL license, as it is what resembles the GPL most and it makes it a good licensing fit with the major GNU/Linux desktop projects like GNOME and KDE. It also allows you to share
code more openly with projects that have compatible licenses. As you might deduce, pure GPL licensed code without the above-mentioned clause is not re-usable in your application under a GPL plus exception clause unless you get the author of the pure GPL code to allow a relicensing to GPL plus exception clause. By choosing the LGPL, there is no need for an exception clause and thus code can be shared freely between your application and other LGPL using projects.

We have above outlined the practical reasons for why the GStreamer community suggest you allow non-free plugins to be used with your applications. We feel that in the multimedia arena, the free software community is still not strong enough to set the agenda and that blocking non-free plugins to be used in our infrastructure hurts us more than it hurts the patent owners and their ilk.

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* /netty-common-4-1-107-final-sources-jar/io/netty/util/SuppressForbidden.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/ReflectionUtil.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/PriorityQueue.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/logging/LocationAwareSlf4JLogger.java
*
 /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/LongAdderCounter.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/ObjectCleaner.java

* /netty-common-4-1-107-final-sources-jar/io/netty/util/NettyRuntime.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/UncheckedBooleanSupplier.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/EmptyPriorityQueue.java
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io.netty.util.internal.Hidden$NettyBlockHoundIntegration

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INF/services/reactor.blockhound.integration.BlockHoundIntegration
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* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/UnaryPromiseNotifier.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/ResourceLeakTracker.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandler.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/OrderedEventExecutor.java
*

/netty-common-4-1-107-final-sources-jar/io/netty/util/DomainNameMappingBuilder.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/logging/Log4J2Logger.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/NonStickyEventExecutorGroup.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/NativeLibraryUtil.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/SocketUtils.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/MacAddressUtil.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/OutOfDirectMemoryError.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/EventExecutorChooserFactory.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/RejectedExecutionHandlers.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/IntSupplier.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorChooserFactory.java
*
/netty-common-4-1-107-final-sources-jar/io/netty/util/internal/ConstantTimeUtils.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/logging/Log4J2LoggerFactory.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/PromiseNotificationUtil.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/BooleanSupplier.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/PromiseCombiner.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/ThrowableUtil.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/UnorderedThreadPoolEventExecutor.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/UnstableApi.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/ResourceLeakDetectorFactory.java
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* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/logging/InternalLogLevel.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/package-info.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/TimerTask.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/GlobalEventExecutor.java
*
/netty-common-4-1-107-final-sources-jar/io/netty/util/HashedWheelTimer.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/DefaultAttributeMap.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/BlockingOperationException.java

* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/logging/Log4JLoggerFactory.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutor.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/SystemPropertyUtil.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/package-info.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/SingleThreadEventExecutor.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/Timeout.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/SucceededFuture.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/Signal.java
*
 /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/EventExecutorGroup.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/AttributeKey.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/FailedFuture.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/logging/InternalLoggerFactory.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/logging/Slf4JLoggerFactory.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/AttributeMap.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/DefaultEventExecutorGroup.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/PlatformDependent.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/logging/CommonsLoggerFactory.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/logging/Slf4JLogger.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/Constant.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/MultithreadEventExecutorGroup.java
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* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/EventExecutor.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/Timer.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/Attribute.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/CharsetUtil.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/logging/AbstractInternalLogger.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/AbstractConstant.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/IllegalReferenceCountException.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/StringUtil.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/NetUtil.java
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* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/ResourcesUtil.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/ByteProcessorUtils.java
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* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/FastThreadLocalRunnable.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/Cleaner.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/CleanerJava9.java
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* /netty-common-4-1-107-final-sources-jar/META-INF/maven/io.netty/netty-common/pom.xml

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
 <modelVersion>4.0.0</modelVersion>

 <artifactId>jctools-core</artifactId>
 <groupId>org.jctools</groupId>
 <version>3.1.0</version>
 <name>Java Concurrency Tools Core Library</name>
 <description>Java Concurrency Tools Core Library</description>
 <packaging>bundle</packaging>

 <dependencies>
  <dependency>
   <groupId>org.hamcrest</groupId>
   <artifactId>hamcrest-all</artifactId>
   <version>${hamcrest.version}</version>
   <scope>test</scope>
  </dependency>

  <dependency>
   <groupId>junit</groupId>
   <artifactId>junit</artifactId>
   <version>${junit.version}</version>
   <scope>test</scope>
  </dependency>

  <dependency>
   <groupId>com.google.guava</groupId>
   <artifactId>guava-testlib</artifactId>
   <version>${guava-testlib.version}</version>
   <scope>test</scope>
  </dependency>
 </dependencies>
 <build>
  <plugins>
   <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-surefire-plugin</artifactId>
    <version>3.0.0-M3</version>
    <configuration>
     <includes>
      <include>*</include>
     </includes>
    </configuration>
   </plugin>
   <plugin>
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  <groupId>org.apache.felix</groupId>
  <artifactId>maven-bundle-plugin</artifactId>
  <version>4.2.1</version>
  <extensions>true</extensions>
  <configuration>
   <instructions>
    <Import-Package>sun.misc;resolution:=optional</Import-Package>
   </instructions>
  </configuration>
 </plugin>
 <plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-source-plugin</artifactId>
  <version>3.2.0</version>
  <executions>
   <execution>
    <id>attach-sources</id>
    <phase>verify</phase>
    <goals>
     <goal>jar-no-fork</goal>
    </goals>
   </execution>
  </executions>
 </plugin>
 <plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
   <additionalOptions>
    <additionalOption>-Xdoclint:none</additionalOption>
   </additionalOptions>
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  </configuration>
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   <execution>
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    <goals>
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    </goals>
   </execution>
  </executions>
 </plugin>
</plugins>
</build>

<distributionManagement>
 <repository>
```

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  <name>jctools-jctools</name>
  <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/;publish=1</url>
 </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
 <license>
  <name>Apache
License, Version 2.0</name>
  <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  <distribution>repo</distribution>
 </license>
</licenses>

<scm>
 <url>https://github.com/JCTools/JCTools</url>
 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
 <tag>HEAD</tag>
</scm>

<developers>
 <developer>
  <url>https://github.com/nitsanw</url>
 </developer>
 <developer>
  <url>https://github.com/mjpt777</url>
 </developer>
 <developer>
  <url>https://github.com/RichardWarburton</url>
 </developer>
 <developer>
  <url>https://github.com/kay</url>
 </developer>
 <developer>
  <url>https://github.com/franz1981</url>
 </developer>
</developers>

<prerequisites>
 <maven>3.5.0</maven>
</prerequisites>

<properties>
 <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
```

```
  <java.version>1.6</java.version>
  <java.test.version>1.8</java.test.version>

  <maven.compiler.source>${java.version}</maven.compiler.source>
  <maven.compiler.target>${java.version}</maven.compiler.target>
  <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
  <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

  <hamcrest.version>1.3</hamcrest.version>
  <junit.version>4.12</junit.version>
  <guava-testlib.version>21.0</guava-testlib.version>
 </properties>
</project>
```

Found
 in path(s):
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* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/LongCounter.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/HashingStrategy.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/DefaultPriorityQueue.java
*
 /netty-common-4-1-107-final-sources-jar/io/netty/util/AsyncMapping.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/DomainMappingBuilder.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/PriorityQueueNode.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/ThreadProperties.java
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* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/CleanerJava6.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/concurrent/FastThreadLocalThread.java
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* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscLinkedQueue.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscCompoundQueue.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/QueueFactory.java
*
 /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MessagePassingQueueUtil.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/PortableJvmInfo.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/BaseSpscLinkedArrayQueue.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingSetInt.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/Pow2.java
*
 /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpmcArrayQueue.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeLongArrayAccess.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/ConcurrentAutoTable.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/InternalAPI.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscChunkedArrayQueue.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
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 /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeJvmInfo.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/MpscGrowableArrayQueue.java
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* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/SpscArrayQueue.java
* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java

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* /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/util/UnsafeAccess.java
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 /netty-common-4-1-107-final-sources-jar/io/netty/util/internal/shaded/org/jctools/maps/NonBlockingHashMap.java
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1.716 ssl-cert 1.1.2ubuntu1

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1.718 pkcs11 1.1.1

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package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal   *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target subscription.
//   - credential - used
 to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {

```
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2025-02-19-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters for the
LicensesClient.BeginCreateOrUpdate
//
     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError
 type.
//
// Generated from API version 2025-02-19-preview
```

```
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates the CreateOrUpdate request.
func (client
 *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, _ *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(),
 urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2025-02-19-preview")
```

```
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2025-02-19-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2025-02-19-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginDelete"
 ctx
 = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
```

```
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, _ *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil,
 errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2025-02-19-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
// If the operation fails it returns an *azcore.ResponseError
```

```
 type.
//
// Generated from API version 2025-02-19-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 if
 !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, _ *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == ""
 {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
```

```
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2025-02-19-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2025-02-19-preview
//   - resourceGroupName
 - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp, err := runtime.FetcherForNextLink(ctx,
 client.internal.Pipeline(), nextLink, func(ctx context.Context) (*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
```

```
  }
  return client.listByResourceGroupHandleResponse(resp)
 },
 Tracer: client.internal.Tracer(),
})
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
_ *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if client.subscriptionID == "" {
  return
 nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2025-02-19-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return result, nil
}

// NewListBySubscriptionPager - The operation
 to get all licenses of a non-Azure machine
//
// Generated from API version 2025-02-19-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
```

```
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp, err := runtime.FetcherForNextLink(ctx,
 client.internal.Pipeline(), nextLink, func(ctx context.Context) (*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, _
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err
 != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2025-02-19-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}
```

```
// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2025-02-19-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters
 supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Update
 - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2025-02-19-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
```

```
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// updateCreateRequest
 creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, _ *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2025-02-19-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
```

```
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2025-02-19-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*runtime.Poller[LicensesClientValidateLicenseResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2025-02-19-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx
 = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
```

```
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, _
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot
 be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2025-02-19-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"

```
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginCreateOrUpdate
 func(ctx context.Context, resourceGroupName string, licenseName string, parameters armhybridcompute.License,
options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.LicenseUpdate, options
 *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
```

```
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport {
 return &LicensesServerTransport{
  srv:
                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:              newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:              newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport instead.
type LicensesServerTransport
 struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
```

```
 method, ok := rawMethod.(string)
 if
 !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 return l.dispatchToMethodFake(req, method)
}

func (l *LicensesServerTransport) dispatchToMethodFake(req *http.Request, method string) (*http.Response, error)
{
 resultChan := make(chan result)
 defer close(resultChan)

 go func() {
  var intercepted bool
  var res result
  if licensesServerTransportInterceptor != nil {
   res.resp, res.err, intercepted = licensesServerTransportInterceptor.Do(req)
  }
  if !intercepted {
   switch method {
   case "LicensesClient.BeginCreateOrUpdate":
    res.resp, res.err = l.dispatchBeginCreateOrUpdate(req)
   case "LicensesClient.BeginDelete":
    res.resp, res.err = l.dispatchBeginDelete(req)
   case "LicensesClient.Get":
    res.resp, res.err = l.dispatchGet(req)
   case "LicensesClient.NewListByResourceGroupPager":
    res.resp, res.err = l.dispatchNewListByResourceGroupPager(req)
   case "LicensesClient.NewListBySubscriptionPager":
    res.resp,
res.err = l.dispatchNewListBySubscriptionPager(req)
   case "LicensesClient.BeginUpdate":
    res.resp, res.err = l.dispatchBeginUpdate(req)
   case "LicensesClient.BeginValidateLicense":
    res.resp, res.err = l.dispatchBeginValidateLicense(req)
   default:
    res.err = fmt.Errorf("unhandled API %s", method)
   }

  }
  select {
  case resultChan <- res:
  case <-req.Context().Done():
  }
 }()
```

```
 select {
 case <-req.Context().Done():
  return nil, req.Context().Err()
 case res := <-resultChan:
  return res.resp, res.err
 }
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req,
 beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
```

```
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
  return nil, err
```

```
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected
 status code %d. acceptable values are http.StatusOK, http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil,
 err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent, server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
```

```
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager
 := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string)
 {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request) (*http.Response, error)
```

```
{
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager)
 {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
```

```
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
 if err != nil {
  return nil, err
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if
err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginUpdate = &respr
 l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response,
 error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
```

```
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense,
 req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}

// set this to conditionally intercept incoming requests to LicensesServerTransport
var licensesServerTransportInterceptor interface {
 // Do returns true if the server transport should use the returned response/error
 Do(*http.Request) (*http.Response, error, bool)
}
```

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//go:build go1.18
// +build go1.18

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```
package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/4a2bb0762eaad11e725516708483598e0c12cabb/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2025-02-19-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=
 nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
```

```
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //
    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/4a2bb0762eaad11e725516708483598e0c12cabb/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2025-02-19-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
```

```
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated
 from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/4a2bb0762eaad11e725516708483598e0c12cabb/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2025-02-19-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
```

```
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
 Properties: &armhybridcompute.LicenseUpdateProperties{
  LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors:
to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
//
 Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](8),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
```

```
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/4a2bb0762eaad11e725516708483598e0c12cabb/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2025-02-19-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
```

```
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/4a2bb0762eaad11e725516708483598e0c12cabb/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2025-02-19-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/4a2bb0762eaad11e725516708483598e0c12cabb/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2025-02-19-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
```

```
 for _, v := range page.Value {
  // You could use page here. We use blank identifier for just demo purposes.
  _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //
   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/4a2bb0762eaad11e725516708483598e0c12cabb/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2025-02-19-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
```

```
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as
 follows. Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
  //    Name: to.Ptr("{licenseName}"),
  //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
  //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
  //    Location: to.Ptr("eastus2euap"),
  //    Properties: &armhybridcompute.LicenseProperties{
  //     LicenseDetails: &armhybridcompute.LicenseDetails{
  //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
  //      AssignedLicenses: to.Ptr[int32](8),
  //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
  //      ImmutableID: to.Ptr("<generated Guid>"),
  //      Processors: to.Ptr[int32](6),
  //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
  //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  //
     },
  //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  //     TenantID: to.Ptr("{tenandId}"),
  //    },
  //  }},
  // }
 }
}
{
 "main": "dist/src/index.js",
 "dependencies": {
   "@azure-tools/typespec-go": "0.8.2"
 },
 "devDependencies": {
   "@azure-tools/typespec-autorest": "0.60.0",
   "@azure-tools/typespec-azure-core": "0.60.0",
```

```
  "@azure-tools/typespec-azure-resource-manager": "0.60.0",
  "@azure-tools/typespec-azure-rulesets": "0.60.0",
  "@azure-tools/typespec-client-generator-core": "0.60.0",
  "@azure-tools/typespec-liftr-base": "0.8.0",
  "@typespec/compiler": "1.4.0",
  "@typespec/events": "0.74.0",
  "@typespec/http": "1.4.0",
  "@typespec/openapi": "1.4.0",
  "@typespec/rest": "0.74.0",
  "@typespec/sse": "0.74.0",
  "@typespec/streams": "0.74.0",
  "@typespec/versioning": "0.74.0",
  "@typespec/xml": "0.74.0"
 }
}
```

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1.721 prometheus-client 1.12.1

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1.722 grpc-gateway 1.16.0

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https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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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.

All
Python releases are Open Source (see https://opensource.org for
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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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other software that is released under the GPL; the others don't.

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

Thanks to the many outside volunteers who have worked under Guido's
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A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes

2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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

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

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1.727 libxext 2:1.3.4-1build2

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1.733 annotations 3.0.1

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1.734 netty-resolver 4.1.107.Final

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* /netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/NameResolver.java
* /netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/SimpleNameResolver.java
*
 /netty-resolver-4-1-107-final-sources-jar/io/netty/resolver/NoopAddressResolver.java
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1.735 libpammodulesbin 1.5.3-5ubuntu5.5

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Upstream-Name: Linux-PAM
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this stuff is worth it, you can buy me a beer in return.   Poul-Henning Kamp
Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

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Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam/modules/pam_motd/pam_motd.c
```
===================================================================
--- pam.orig/modules/pam_motd/pam_motd.c
+++ pam/modules/pam_motd/pam_motd.c
@@ -348,6 +348,65 @@
   return PAM_SUCCESS;
}

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
```

```
+   struct passwd *pwd = NULL;
+   struct stat s;
+   int f;
+   /* Get the user name to determine if we need to print the disclaimer */
+   rc = pam_get_item(pamh, PAM_USER, &user);
+   if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+   {
+      PAM_MODUTIL_DEF_PRIVS(privs);
+
+
     /* Get the password entry */
+      pwd = pam_modutil_getpwnam (pamh, user);
+      if (pwd != NULL)
+      {
+         if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+            pam_syslog(pamh, LOG_ERR,
+                  "Unable to change UID to %d temporarily\n",
+                  pwd->pw_uid);
+            retval = PAM_SESSION_ERR;
+            goto finished;
+         }
+
+         if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+            goto finished;
+         if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+            goto finished;
+
+         if (stat(flag, &s) != 0)
+         {
+            int fd = open("/etc/legal", O_RDONLY, 0);
+            if (fd >= 0) {
+               try_to_display_fd(pamh, fd);
+               close(fd);
+            }
+            mkdir(dir, 0700);
+            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+
           S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+            if (f>=0) close(f);
+         }
+
+finished:
+         if (pam_modutil_regain_priv(pamh, &privs)) {
+            pam_syslog(pamh, LOG_ERR,
+                  "Unable to change UID back to %d\n", privs.old_uid);
+            retval = PAM_SESSION_ERR;
+         }
+
```

```
+           _pam_drop(flag);
+           _pam_drop(dir);
+       }
+   }
+   return retval;
+}
+
int pam_sm_open_session(pam_handle_t *pamh, int flags,
  int argc, const char **argv)
{
@@ -446,6 +505,9 @@
                        motd_dir_path_split, num_motd_dir_paths,
                        report_missing);

+   /* Display the legal disclaimer only if necessary */
+   retval = display_legal(pamh);
+
 out:
   _pam_drop(motd_path_copy);
   _pam_drop(motd_path_split);
```

1.736 readline 8.2

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1.740 ecj 3.26.0

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* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/NoFieldException.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/SyntaxError.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/tools/reflect/CannotReflectException.java
* /javassist-3-22-0-cr2-sources-4-jar/javassist/convert/TransformCall.java
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* /javassist-3-22-0-cr2-sources-4-jar/javassist/CtArray.java
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[2227][2244]CANAL DE NOTICIAS
[2253][2291]La semana pasada,|Steven Johnson, de 28 aos...
[2291][2318]y Stephanie Tramer, de 30 aos...
[2318][2335]fueron encontrados apaleados|en un bosque local.
[2338][2376]El principal sospechoso y residente|local de Dunwich, Jack Cain,
[2376][2408]a quien la Polica arrest 24 horas|despus del descubrimiento...
[2408][2434]de los cuerpos, se encuentra|actualmente en la Corte.
[2434][2465]Asistiendo a una audiencia de|preparacin para el juicio.
[2465][2482]S espera que la audiencia...
[2482][2498]que sea una especie de formalidad...
[2498][2517]donde se presentaran los hechos clave...
[2517][2541]y el acusado se declarar culpable.
[2543][2573]En caso de que esa declaracin|no sea culpable, como se espera,
[2573][2596]se fijar una fecha para el juicio.
[2609][2656]De ests 16 pualadas,|5 por s solas...
[2656][2674]hubieran sido fatales.
[2683][2697]Steve Johnson...
[2704][2749]recibi 13 pualadas,|principalmente
 en el pecho.
[2759][2793]Sin embargo, hubo varias abrasiones|en las palmas...
[2793][2845]de sus manos...|Lo que sugiere heridas defensivas.
[2854][2895]El golpe fatal fue una|pualada en la aorta,
[2896][2931]el vaso sanguneo grande|que sale del corazn.
[2948][2954]Su Seora...

[2962][2994]debido a la naturaleza|atroz de este crimen,
[3003][3046]y las pruebas circunstanciales|contra el seor Cain...
[3053][3079]y su falta de coartada,
[3087][3123]hay suficientes|pruebas para enjuiciar.
[3129][3145]Algo ms que aadir?
[3149][3171]No, eso es todo, Su Seora.
[3242][3254]Seor Cain.
[3265][3302]Antes de proceder, debo informarle...
[3304][3345]por segunda vez que,|dados los gravsimos cargos...
[3345][3387]lo mejor para usted es|contratar a un asesor legal...
[3387][3399]en este asunto.
[3426][3441]Me representar a m mismo,|Su Seora.
[3441][3455]No tengo nada que ocultar.
[3468][3480]Como desee.
[3492][3513]Antes de que pasemos|a una declaracin...
[3532][3557]tiene alguna
prueba|que desee presentar?
[3561][3601]Qu contradiga lo que la|Fiscala ha presentado?
[3718][3731]No en este momento.
[3741][3765]Me gustara declararme inocente.
[3796][3808]Como desee.
[3919][3956]Podran ambos abogados|acercarse al estrado, por favor?
[4111][4148]La gravedad de este|crimen es evidente.
[4182][4206]Toda la evidencia recolectada...
[4206][4268]en contra del seor Cain se obtuvo|despus de un arresto ilegal.
[4312][4325]Orden en la sala!
[4359][4394]No tengo ms remedio que pedir|que se desestime el caso.
[4404][4433]Su Seora,|no puede dejar ir a este hombre.
[4439][4456]Es un peligro para todos nosotros.
[4461][4488]Entonces, quizs la Polica|debera haberle ledo sus derechos...
[4488][4503]cuando lo arrestaron.
[4525][4563]El registro del auto del seor Cain,|su casa, las entrevistas,
[4568][4601]todo esto es ahora|inadmisible como prueba.
[4604][4623]Este caso est desestimado.
[4624][4641]- Culpable!|- Ordeno que el acusado...
[4642][4656]sea liberado de forma inmediata.
[4656][4675]Asesino!
Asesinaste a mi hijo!
[4815][4837]No le leste sus derechos.
[4838][4857]Qu cojones es esto,|la hora del aficionado?
[4857][4886]Lo persegu.|Tenamos a la Polica armada afuera.
[4888][4924]En toda la conmocin slo|comet un error, de acuerdo?
[4925][4945]Claro que cometiste un error.
[4952][4989]Y mi hijo y la hermana de este|pobre chico no vern justicia.
[4991][5022]Escoria como Cain no mantendr|su nariz limpia por mucho tiempo.
[5022][5055]Cuando se pase de la raya,|yo estar ah para derribarlo.
[5062][5079]Crees que volver a matar?
[5087][5116]No lo s, pero es capaz de hacerlo.

[5119][5136]Bueno,|ahora todos estamos en peligro.
[5145][5163]Miren,|mantendr esta ciudad a salvo.
[5174][5184]S.
[5188][5209]Como el buen trabajo que|hiciste la primera vez.
[5209][5232]- Ahora vete a la mierda, Joe.|- Escucha!
[5235][5276]Si esa basura lastima a|alguien ms, rodarn cabezas.
[5276][5292]- Mira hombre...|- Cometiste...
[5292][5319]el mayor error de tu carrera aqu,|simple y llanamente.
[5319][5342]-
Quieres mi renuncia?|- La ofreces?
[5342][5371]- Tengo otra opcin?|- Siempre hay opciones, Frank.
[5374][5395]Hacer tu trabajo es una opcin.
[5408][5431]Cul es tu trabajo, Frank?|Puedes decirme eso?
[5451][5473]Respetar la ley,|mantener la ciudad a salvo.
[5473][5497]Mantn esta ciudad a salvo,|precisamente.
[5503][5524]Todos queramos|justicia en este caso.
[5524][5542]La ley no nos ha dado eso.
[5546][5575]Significa eso que el|deber de proteger a Dunwich...
[5575][5591]se va por la ventana?
[5601][5613]No.
[5625][5654]Johnny, dime hijo,|qu significa la justicia para ti?
[5685][5724]Quiero ver a Cain sufrir por|lo que le hizo a mi hermana.
[5739][5752]Qu hay de ti, Joe?
[5752][5787]Ningn padre debera|enterrar a su propio hijo.
[5797][5809]No es natural.
[5813][5847]Y ese pedazo de mierda merece|morir por lo que ha hecho!
[5871][5883]Estoy de acuerdo.
[5934][5948]Qu ests diciendo, hombre?
[5949][5977]Bueno, todos nosotros nos conocemos|desde hace mucho tiempo, Frank.
[5978][6008]Podr
ser el Alcalde de esta ciudad,|pero tambin soy tu amigo.
[6012][6032]Los amigos deberan ayudarse|mutuamente, no crees?
[6061][6072]Si.
[6084][6116]As que, voy a ayudarte a|salvar tu trabajo, Frank.
[6124][6141]Joe, Johnny...
[6159][6173]vamos a conseguirles justicia.
[6203][6228]Y cmo te propones hacer eso?
[6303][6315]Zombis.
[6331][6343]S.
[6347][6363]Son mis sirvientes.
[6394][6419]Este asesino del alma|se lleva a los hombres...
[6419][6434]de sus tumbas...
[6444][6462]para ser sus esclavos.
[6512][6536]Son instrumentos de terror...
[6536][6558]y ahora este demonio conspira...
[6559][6579]para poseer a una mujer.
[6639][6652]S, amo?
[6687][6711]Este asesino del alma|se lleva a los hombres...

[6711][6759]de sus tumbas...|Para ser sus esclavos...
[6838][6869]y ahora este demonio conspira|para poseer a una mujer.
[6913][6927]Qu bestial.
[7233][7255]Qu cojones es esto,|una
fiesta de Noche de Brujas?
[7268][7288]Es hora de pagar por|lo que hiciste, Cain.
[7323][7336]Tienes algo que decir?
[7355][7393]Despreciame y vers a un tonto.
[7398][7423]Resptame y vers a un Dios.
[7423][7461]Mrame directamente y|te vers a ti mismo.
[7483][7495]No soy como t.
[7503][7516]Ninguno de nosotros lo es.
[7521][7539]Aprieta el gatillo y|te vuelves culpable...
[7539][7554]de lo que me acusas.
[7559][7583]La pregunta que|tienen que hacerse es,
[7587][7609]pueden vivir con quitar una vida?
[7622][7637]No slo vivir con ello,
[7643][7671]me despertar sonriendo|todos los malditos das...
[7671][7683]sabiendo que te has ido.
[7691][7707]Eso traer a tu hijo de vuelta?
[7718][7723]Vete a la mierda!
[7882][7903]Tratan de humillarme?
[7922][7934]No.
[7944][7957]Estoy tratando de matarte.
[8003][8032]Hazlo, Johnny.|Hazlo por tu hermana.
[8038][8056]Hazlo!
[8337][8356]Traigan las palas.
[8554][8583]Esto no hace falta decirlo,|pero lo voy a decir de todos modos.
[8591][8619]Nunca hablaremos
de esto con nadie,|nunca.
[8632][8661]Si alguien pregunta,|Cain se fue de la ciudad.
[8670][8685]Todos estamos de acuerdo en eso?
[8702][8714]Si.
[8721][8733]Johnny?
[8774][8786]Qu?
[8809][8834]Nunca hablaremos de esto...
[8839][8858]a nadie en la vida.
[8868][8888]De acuerdo?
[8944][8956]De acuerdo.
[9034][9051]Has estado muy callado, Frank.
[9097][9127]Promteme que nunca le|dirs a nadie sobre esto.
[9133][9147]Mientras vivas.
[9165][9179]Quiero orte decirlo.
[9265][9277]Bien.
[9281][9296]Prometo no decirle a nadie...
[9296][9325]sobre esto,|durante el resto de mi vida.
[9471][9518]UN AO MS TARDE
[9699][9717]Ya hemos pasado un|minuto de la medianoche.

[9717][9736]Y es oficialmente el|da en que el velo...
[9736][9763]entre los vivos y los muertos|est en su punto ms bajo.
[9766][9801]Aqu WKB Dunwich y yo soy|Jennifer Hollister despidindose,
[9801][9822]queridos oyentes,|con esta clsica.
[9831][9845]Feliz Noche de Brujas.
[10493][10506]Cabrn.
[10522][10536]Maldito cabrn.
[10584][10605]Mentiste,
pedazo de mierda.
[10634][10653]No pude vivir con ello.
[11177][11225]La vida es slo un|sueo para los muertos.
[11348][11372]- Hola, pap.|- Buenos das.
[11373][11385]Te ves como el demonio.
[11394][11404]Gracias, lo necesitaba.
[11412][11444]- Te cuesta dormir?|- S, qu hay de nuevo?
[11448][11466]Quieres que te|prepare algo de comer?
[11472][11498]No, estar bien.|Tomar algo de camino al trabajo.
[11505][11512]Comida rpida?
[11518][11537]Vamos, pap, te preparar unos huevos.
[11549][11568]Eres demasiado buena conmigo,|lo sabas?
[11586][11594]Pens que lo habas dejado.
[11597][11609]Lo estoy intentando.
[11612][11639]No muy en serio|por lo que parece.
[11644][11666]Supongo va de la mano con|el estrs del trabajo.
[11678][11704]Vas a ir a la fiesta|de Noche de Brujas esta noche?
[11713][11727]No creo.
[11731][11742]Tal vez deberas hacerlo.
[11751][11769]Podra ayudarte a|desestresarte un poco.
[11775][11784]Trabajars esta noche?
[11794][11806]Estoy libre.
[11814][11833]Estaba
pensando que|podra ir a la fiesta.
[11844][11856]Podra ser divertido.
[11863][11875]Recuerdas esa palabra?
[11891][11903]Diversin?
[11906][11931]Supongo que no he tenido mucho|tiempo para eso ltimamente.
[12037][12049]Hollister.
[12052][12064]Sip.
[12072][12086]Cristo.
[12093][12107]Voy enseguida.
[12125][12141]Lo siento, cario, tengo que irme.
[12146][12162]Trabajo.
[12354][12379]POLICA - NO CRUZAR
[12436][12478]- Qu ha pasado?|- Johnny Tramer, suicidio.
[12478][12496]- Jess.|- Disparo en la cabeza.
[12531][12545]Qu est pasando all?
[12559][12575]Es algo realmente extrao.
[12585][12599]Cav el hoyo?

[12603][12616]No haba seales de|una pala alrededor.
[12616][12646]As que si lo hizo,|no estoy seguro de cmo.
[12645][12663]- Sus manos?|- Lo he comprobado.
[12666][12687]Las uas estn limpias.
[12681][12704]- Extrao.|- Se vuelve an ms extrao.
[12713][12723]Qu quieres decir?
[12727][12743]Mira las huellas de las manos.
[12746][12771]No parece que alguien|fue enterrado vivo aqu...
[12771][12782]y
cavara para salir?
[12788][12819]Entrando en el espritu|de Noche de Brujas, Brodie?
[12818][12828]No!
[12829][12855]Es slo, slo lo que parece.
[12863][12889]Me parece que alguien acaba|de cavar un hoyo en un campo.
[12889][12905]Por qu, no lo s.
[12917][12938]Parece que hubo algo de|lluvia aqu, sin embargo.
[12939][12961]Manos grandes tambin,|definitivamente un hombre.
[12965][12993]Puso sus manos sobre el|lodo para salir de all.
[12997][13026]Entonces, Johnny se meti en|el hoyo para seguir cavando...
[13026][13045]luego, cuando termin,|se sac a s mismo.
[13045][13062]No...|Vers, eso pens.
[13063][13094]Pero tengo a mis hombres midiendo la|enpolladura de las manos de Johnny,
[13095][13117]y son la mitad del tamao|de esas huellas de manos.
[13125][13153]Entonces, qu ests diciendo, que alguien|ms estuvo aqu tambin?
[13156][13191]Bueno, no hay seales de una pala,|dos juegos de huellas de manos.
[13202][13223]Tal vez alguien lo mat y tena|la intencin de enterrar el cuerpo...
[13223][13247]pero,
lo interrumpieron y huyo.
[13263][13294]Tendremos que ver qu dice el informe|de balstica. Llamaste al forense?
[13296][13323]S, va a tener mucho trabajo|que hacer en este caso.
[13333][13355]- Qu quieres decir?|- Mira el cuerpo.
[13417][13442]Dios! Cunto tiempo lleva aqu?
[13454][13471]Bueno, estuvo en el trabajo ayer.
[13471][13494]As que no ms de 24 horas.
[13504][13522]Nunca he visto un|cuerpo descomponerse...
[13522][13535]en tan poco tiempo.
[13612][13624]Frank?
[13645][13657]Frank.
[13661][13673]Qu?
[13681][13705]- Ests bien?|- S, estoy bien.
[13717][13743]Ser mejor que vaya a|ver a Edie Tramer. Dios!
[13747][13767]Primero su hija el ao pasado|y ahora su hijo.
[13778][13805]- Vas a estar bien aqu?|- S, djamelo a m.
[14021][14035]Hola.
[14042][14054]Ellie.
[14059][14071]Esto se ve muy bien.
[14079][14096]Si que se han superado este ao.
[14096][14108]Gracias.

[14124][14159]As que, vas a ayudar o slo|vas a estar dando vueltas...
[14159][14178]hasta que traigamos
la ponchera?
[14196][14208]Disclpame un momento.
[14287][14306]Cmo te va, Joe?
[14304][14316]No es bueno.
[14317][14338]Johnny Tramer se suicid anoche.
[14354][14378]Dios! Qu ha pasado?
[14381][14406]Fue al lugar, ya sabes...
[14407][14424]dnde est el paquete.
[14432][14457]De todos modos,|el chico se dispar en la cabeza.
[14462][14472]l est muerto.
[14481][14493]Buen Dios.
[14498][14511]Esto est jodido.
[14512][14534]Si la Polica empieza|a husmear en esa zona,
[14534][14556]van a encontrar ms|de lo que esperaban.
[14563][14573]- Muy bien.|- Por qu ese dbil...
[14573][14586]mierdecilla tuvo que hacerlo all?
[14586][14613]Tranquilo, hablar con Frank.|Lo arreglaremos.
[14713][14742]S que este es un momento|desgarrador para ti, Edie...
[14755][14791]pero, hay algo que Johnny|haya dicho o hecho...
[14804][14822]para indicar que era un suicida?
[14835][14858]No ha sido el mismo desde|que Stephanie fue asesinada.
[14866][14881]Ninguno de nosotros lo ha hecho.
[14893][14918]Dijo algo sobre
todo ese asunto,
[14918][14937]ya sabes, Jack Cain?
[14956][14971]Saba que lo quera muerto.
[14982][14994]Todos lo queramos.
[15004][15029]Tus hombres estn ms cerca|de encontrar a esa basura?
[15052][15065]En realidad, no.
[15074][15103]Se fue de la ciudad el ao pasado.|Pudo haber ido a cualquier parte.
[15108][15124]Maldito seas por dejarlo ir.
[15127][15157]No lo dej ir, comet un error.
[15173][15191]Tengo que vivir con|ello todos los das.
[15206][15221]Pobre de ti.
[15236][15261]Tengo que vivir con perder|a Stephanie todos los das.
[15268][15284]Y ahora a mi hijo tambin.
[15297][15309]Tienes razn.
[15313][15329]No quise ser insensible.
[15342][15358]Necesito volver a la estacin.
[15358][15379]Va a venir alguien?
[15379][15398]Puedo enviar a alguien|a ofrecer apoyo.
[15398][15413]Slo quiero que me dejen en paz.
[15436][15449]Entiendo.
[15461][15474]Lo siento, Edie.
[15484][15496]De verdad que lo hago.
[15739][15759]- Hola?|- Hola, mejillas dulces.

[15765][15788]Ya sabes, los aos
'50 llamaron.
[15789][15797]Quieren que le devuelvas|el nombre de su mascota.
[15797][15814]Slo trato de ser carioso.
[15815][15833]Lo s, slo estoy bromeando.
[15839][15851]Cmo van las cosas?
[15851][15872]Bueno, encontramos a|Johnny Tramer esta maana.
[15872][15884]Se suicid.
[15894][15911]Dios, eso es horrible.
[15927][15951]Su hermana tambin muri el ao pasado.|Su madre debe estar hecha pedazos.
[15951][15968]S, tu padre est all ahora mismo.
[15968][15984]Contndole las noticias.
[15993][16007]Dios, eso es horrible.
[16023][16036]No los conoca tan bien.
[16036][16064]Pero pap sola salir|con su padre hace aos.
[16082][16101]Hablando de tu padre, no le dijiste...
[16101][16117]sobre nosotros, verdad?
[16117][16137]Brodie, eres un marica,|lo sabas?
[16137][16156]- No soy un marica.|- Lo eres.
[16171][16192]Por qu demonios ests|tan asustado de mi padre?
[16203][16221]Es el tipo ms dulce del mundo.
[16222][16252]S, en casa tal vez,|pero en el trabajo es mi jefe.
[16252][16277]Y
sabes lo incmodo que es que|te atrapen con la hija del jefe?
[16277][16294]Vamos, admtelo.
[16297][16318]El riesgo es parte de la emocin.
[16335][16371]Entonces, dime. Qu llevas puesto?
[16381][16406]Un jersey de lana grueso y|una redecilla para el cabello.
[16409][16427]Vamos Jen, en serio?
[16427][16454]- De verdad quieres hacer esto ahora?|- S, slo un minuto.
[16459][16479]Llama a uno de esos programas|de chicas de la tele...
[16479][16502]donde las chicas mueven|el culo arriba y abajo.
[16504][16528]S, cuestan cinco dlares|el minuto, esto es gratis.
[16534][16558]Eres una mierda tan descarada,|lo sabas?
[16584][16599]Vamos, dime. Qu llevas puesto?
[16609][16622]Con quin ests hablando?
[16636][16654]No es nadie.
[16661][16674]Hablando solo?
[16678][16695]Es una chica que conozco.
[16702][16718]De acuerdo, bueno, no tardes mucho.
[16718][16744]Tenemos cosas ms importantes|de las que ocuparnos hoy.
[16748][16765]Estar en mi oficina.
[16767][16779]Seor.
[16827][16848]-
Hola?|- Marica.
[16965][16979]- Dios mo!|- Qu?
[16979][16999]Bien, bien, mira esto.
[17007][17033]- Joder, qu diablos es eso?|- Es muy divertido.

[17037][17061]Una verdadera falta de estndares,|los de tu generacin.
[17063][17086]Dios mo, tenemos un chorreador.
[17087][17111]Muy bien, apgalo.|Este es un lugar de negocios.
[17119][17131]Muy bien.
[17131][17146]Tranquilo, abuelo.
[17149][17164]Sabes, cuando tena tu edad...
[17164][17183]no tenamos acceso a nada de eso.
[17188][17219]Lo que tenamos eran revistas.|Ni siquiera podamos costernoslas.
[17227][17239]Pero siempre encontrbamos,|cmo, grandes montones de ellas...
[17239][17253]en el bosque por alguna razn.
[17258][17286]Esto aade un nuevo significado|al trmino naturista.
[17289][17304]Entonces,|cul es el maldito problema?
[17304][17323]Es lo que hacen los chicos.
[17326][17339]Lo es?
[17339][17358]Dios, no me estoy perdiendo mucho.
[17358][17378]S, todo se trata de las bromas.
[17382][17407]Escucho esa palabra todo el tiempo,|bromas.
[17413][17425]Qu
significa eso?
[17426][17448]Bueno, es slo que, ya sabes,|nos necesitamos el uno al otro.
[17448][17461]Para divertirse y eso.
[17464][17489]Y t siempre ests bromeando|con tus amiguitos, no?
[17489][17504]S, s, lo hacemos.
[17513][17553]Aunque s,|a veces puede ir demasiado lejos.
[17551][17568]- S?|- S.
[17578][17606]Mira, alguna vez te he hablado|de mis vacaciones de la escuela...
[17606][17623]donde unos amigos y yo|nos fuimos a Mxico?
[17623][17635]No.
[17641][17652]Cierto.
[17658][17687]As que hay un chico llamado James,|ya sabes,
[17687][17728]y es muy credo,|demasiado confiado, arrogante.
[17722][17754]As que una noche|sale y se emborracha.
[17754][17783]Luego regresa a la villa|y se desmaya en el sof.
[17788][17805]As que tengo una idea, ya sabes,
[17810][17827]voy a bajarle los humos.
[17833][17858]As que lo que hago es|tomar un condn y lo pongo...
[17858][17877]al final de un lpiz y...
[17886][17914]se lo pongo en el chocolate|mientras est desmayado.
[17926][17941]Cmo
chocolate?
[17945][17972]S, el nudo de tu globo.
[18008][18032]Tu bolso de prisin,|tu estrella de mar de chocolate.
[18049][18062]Raja del culo.
[18063][18081]Entonces, por qu no|dijiste eso para empezar?
[18081][18106]De acuerdo, me asegurar|de mantener mi lenguaje...
[18106][18127]ms adecuado para los|pensionados en el futuro.
[18131][18156]De todos modos,|James se despierta al da siguiente...
[18156][18179]y no tiene recuerdos|de la noche anterior.

[18181][18198]Estaba tan borracho.
[18198][18218]Todo lo que sabe es que|ahora tiene un condn...
[18218][18235]colgando de su culo.
[18237][18266]Y nos pregunta: "Qu pas anoche?"
[18268][18281]Y as que se lo decimos.
[18287][18317]Yo digo: "Bueno, amigo, te vimos|charlando con este chico...
[18317][18351]en el bar y lo siguiente que|sabemos es que te has ido con l".
[18356][18385]As que James,|empez a enloquecer porque piensa...
[18385][18413]que la espada de cerdo de|un extrao se lo ha clavado.
[18432][18458]- La espada
de cerdo significa polla.|- S, s, lo s.
[18458][18477]La descripcin me dio un poco|de informacin sobre eso.
[18478][18523]Est bien, est bien. James,|est llorando y llama a su novia,
[18526][18552]y confiesa su primera|experiencia gay...
[18552][18577]y toma el siguiente|vuelo de vuelta a casa.
[18577][18611]Y no le dije la verdad|hasta seis meses despus.
[18641][18688]As que tcnicamente el nico|que hizo algo gay fuiste t.
[18694][18707]Por qu dices eso?
[18709][18742]- Le metiste un lpiz en el culo.|- S, pero eso no es gay.
[18759][18777]- Es un poco gay.|- Bueno, no, cllate.
[18783][18803]S, tienes razn,|las bromas son divertidas.
[18817][18834]De todos modos,|tengo trabajo que hacer.
[18843][18859]Muy bien, vuelvo en cinco minutos.
[18869][18885]Tengo que ir a echar una cagada.
[18914][18956]ESTACIN DE POLICA
[18966][18993]Entonces, el chico,|por qu lo hizo?
[19003][19017]Bueno, considerando dnde lo hizo.
[19017][19038]Supongo que no poda|vivir con lo que pas.
[19049][19078]-
Hablaste con su madre?|- Est destrozada.
[19087][19114]Le dijo lo que le pas a Cain?
[19115][19134]No creo que ella sepa nada.
[19154][19166]De acuerdo.
[19172][19193]Bueno, djame preguntarte|a ti, Frank.
[19199][19211]Qu hay de ti?
[19222][19234]Qu hay de m?
[19236][19271]Ya no te veo en ninguna|de estas noches sociales.
[19275][19298]Se siente como si nos|estuvieras evitando estos das.
[19298][19323]Realmente pensaste que las cosas|seguiran igual entre nosotros?
[19323][19355]Mierda como esa cambia a la gente.|Ciertamente me cambi a m.
[19369][19395]Piensas demasiado en todo,|ese es tu problema.
[19396][19428]Hicimos lo correcto.|Se hizo justicia.
[19436][19452]Lo que t digas, Milton.
[19461][19474]Ahora, si no te importa,
[19474][19492]tengo mucho papeleo que hacer.
[19753][19769]Mike, tienes la llave inglesa?
[19796][19802]Mike.
[19811][19826]Ests sordo o qu?

[20202][20214]Qu opinas?
[20255][20267]No lo s.
[20285][20304]No he visto nada como esto|desde los asesinatos de Cain.
[20325][20338]Cmo
quieres manejarlo?
[20372][20397]Esta es una semiautomtica.
[20415][20446]Slo amartilla el martillo,|inserta el cartucho...
[20446][20479]en la cmara y la|pistola estar lista...
[20479][20491]para su prximo disparo.
[20507][20531]Los cartuchos se alimentan a|travs de un cargador...
[20532][20556]que se introduce en el mango.
[20562][20584]Si quieres esta, te puedo dar...
[20584][20603]cinco cajas de cargadores,|que tienen 15 cartuchos.
[20603][20619]Que vienen en doble columna.
[20623][20652]Es una mquina muy, muy poderosa.
[20654][20672]Rpida y fcil de recargar tambin.
[20702][20749]Este es el revlver .38.
[20752][20772]El cilindro tiene capacidad|para siete cargas.
[20776][20799]Tanto las semiautomticas|como los revlveres,
[20803][20821]tienen dos estilos de|accin principales.
[20834][20846]Accin simple y doble.
[20857][20878]Esta perrita, es doble.
[20886][20918]Es pequea, lo que la hace|perfecta para ocultarla.
[20929][20952]Pero an as tiene un gran golpe.
[20972][20984]Maldita
pistola ingeniosa.
[20988][21019]Este hijo de puta es mi favorito.
[21052][21099]Esta fina arma goza|de la reputacin...
[21099][21124]de ser el estndar de oro|de la potencia de frenado.
[21141][21183]Es un tapn de un slo|disparo extremadamente fiable.
[21183][21219]No es buena para ocultar,|pero puedes hacer un agujero...
[21219][21246]a travs de un maldito oso,|con una de estas cosas.
[21257][21273]Me encanta esta pistola.
[21296][21315]De acuerdo.
[21325][21333]A algunos cerditos...
[21344][21359]les gusta ir al mercado.
[21361][21379]Algunos cerditos se quedan en casa.
[21387][21418]A algunos les gusta comer|mucha carne asada...
[21436][21452]pero t, cerdito...
[21456][21474]has venido a comprar|algunas armas dudosas.
[21474][21487]Entonces, cul vas a escoger?
[21494][21507]Vamos,|no tengo todo el maldito da.
[21531][21543]Todas ellas.
[21584][21605]Eres un cerdito codicioso, no?
[21616][21648]Siento mucho lo de Johnny.
[21649][21661]Cuando me enter,|tena que venir a
verte.
[21668][21682]Gracias.

[21691][21712]Tienes a alguien aqu|que pueda ayudarte?
[21723][21746]Mi hermano llega esta noche.
[21756][21764]Es todo lo que me queda ahora.
[21797][21808]S que esto es difcil para ti,|Edie,
[21808][21824]pero tengo que preguntar,
[21831][21858]Johnny te dijo algo|sobre Jack Cain?
[21863][21899]- Cmo dnde desapareci?|- No me dijo nada.
[21913][21925]De acuerdo.
[22079][22111]No quiero ser molesto,|pero, tienes galletas?
[22135][22147]Galletas?
[22154][22166]Si.
[22198][22209]S, creo que s.
[22216][22228]En la cocina.
[22246][22272]- Ir a buscarlas.|- Me encantara.
[22275][22288]Gracias.
[23496][23527]Muere, maldita puta!
[23553][23565]Muere!
[23652][23662]Joder.
[23691][23704]Dnde estn las galletas?
[23943][23963]Amigo, un dulce por Noche de Brujas.
[24214][24225]Hola, querido.
[24229][24241]Qu ests haciendo?
[24245][24264]Slo estoy haciendo|todas las decoraciones.
[24269][24288]Pero deberan haberse|hecho esta maana.
[24296][24313]Bueno, yo he...
[24319][24342]He
estado muy ocupada con|todos los pasteles tambin.
[24345][24372]Algunos de ellos estn un|poco quemados, as que...
[24375][24388]Qu quieres decir?
[24391][24413]Bueno...
[24428][24435]No has terminado la decoracin,
[24435][24462]has quemado la comida.|Qu has estado haciendo?
[24467][24479]Hazlos de nuevo!
[24484][24501]- Qu, ahora?|- S, hazlo!
[24505][24519]De acuerdo.
[24732][24749]Siempre tiene que ser as?
[24756][24778]Mira, me disculpo por|perder los estribos,
[24778][24793]pero esto tiene que hacerse.
[24819][24831]De acuerdo.
[25099][25154]Slo una pequea cantidad|en una copa de vino.
[25166][25182]O quizs una flor.
[25223][25239]Qudese con l, Monsieur.
[25284][25297]Qudeselo.
[25312][25338]Puede cambiar de opinin.
[25342][25357]No est muerta?
[25367][25379]Ests loco?
[25387][25394]La v morir.
[25397][25416]El doctor firm el certificado.

[25416][25428]Los v enterrarla.
[25441][25456]Cautiva en el lmite...
[25456][25478]entre
la vida y la muerte.
[25489][25518]Su cerebro se despoj|de la chispa de la vida.
[25545][25591]El zombi blanco obedece|las rdenes impas...
[25591][25609]de su amo demonio.
[25711][25748]Como criaturas sin sentido llevan|a cabo su maldita sea a voluntad...
[25808][25821]Zombis!
[26387][26402]Emergencia, emergencia.
[26928][26949]Adelante, Frank. Adelante.
[26987][26993]Si?
[26994][27012]Ven a la casa de los|Boggs en la calle Oak.
[27024][27038]Es malo, Frank.
[27044][27058]Es realmente jodidamente malo.
[27583][27614]NOCHE DE BRUJAS
[28094][28128]Parece que tenemos a un|maniaco suelto.
[28189][28201]Ests bien, Frank?
[28223][28232]Frank?
[28249][28273]S, s.
[28307][28315]Te voy a decir algo...
[28323][28343]que nunca se lo he contado a nadie.
[28347][28367]S,|algo que he estado llevando conmigo...
[28367][28384]desde hace un ao.
[28401][28413]De acuerdo.
[28417][28429]Jack Cain.
[28447][28459]Hace
un ao,
[28467][28495]yo, Boggs...
[28501][28516]Joe, y Johnny...
[28526][28542]fuimos a su cabaa.
[28557][28573]Lo llevamos al campo,
[28577][28601]el mismo en el que Johnny|fue encontrado esta maana...
[28621][28634]y lo matamos.
[28649][28667]Le disparamos a quemarropa...
[28679][28692]y luego lo enterramos.
[28711][28724]Hablas en serio, Frank?
[28731][28752]Sent que era lo correcto.
[28766][28795]Pero, me ha perseguido|desde entonces.
[28862][28893]As que estos asesinatos,|ahora hay un vnculo claro...
[28893][28906]entre las vctimas.
[28922][28953]Todo hombre involucrado en el asesinato|de Jack Cain est ahora muerto.
[28966][28987]Todos menos uno.
[28992][29018]Sabes lo que eso significa,|verdad?
[29028][29048]- Eres el siguiente.|- As es.
[29071][29091]Hay algo ms que deberas saber,|tambin.
[29094][29106]Qu sera eso?
[29129][29142]Hay un tipo...

[29151][29173]en la penitenciara de Edenfield,
[29175][29189]alguien llamado Charlie Edgar.
[29199][29226]Est cumpliendo cadena perpetua|por
el asesinato de una joven.
[29236][29252]Hace unos meses me lleg la noticia...
[29253][29276]del psiquiatra, que Edgar...
[29276][29296]haba confesado los|asesinatos de Cain.
[29303][29314]Lo entrevistaste?
[29321][29333]Lo hice, s.
[29347][29386]Y tengo que decirte, cuando|Edgar me cont cmo fue todo,
[29391][29403]le cre.
[29412][29429]Saba muchos detalles|sobre los asesinatos...
[29429][29447]que mantuvimos fuera|de los peridicos.
[29452][29465]Entonces, qu hiciste?
[29486][29499]Escrib un informe.
[29527][29541]Y luego lo enterr.
[29555][29571]Nunca se lo ense a nadie.
[29577][29601]Ya fue bastante difcil|lidiar con la idea...
[29601][29618]de matar a un supuesto culpable.
[29627][29634]Cielos, Frank.
[29642][29667]Me avergenzo de lo que he hecho.
[29687][29724]Alguien ms sabe...|Que mataste a Cain?
[29742][29768]Es posible que uno|de los otros tipos...
[29768][29783]haya hablado con alguien,|de acuerdo.
[29784][29813]Pero por qu alguien|se estara vengando...
[29813][29828]en
nombre de Jack Cain?
[29828][29845]Toda la ciudad viva|con miedo de l.
[29845][29859]Todos lo queran muerto.
[29863][29887]Podra ser un amigo de Cain,|alguien vinculado a l.
[29889][29907]S, esa es la explicacin racional.
[29915][29929]Pero hay otra teora.
[29942][29957]No es tan racional.
[29962][29974]Y esa es?
[29979][29997]Jack Cain ha vuelto de la muerte.
[30021][30032]Te sientes bien?
[30036][30061]Sabes, este es un momento|estresante y todo eso, Frank.
[30061][30081]- Ya sabes, pero...|- Y ese agujero en el suelo,
[30086][30125]dijiste que pareca que alguien haba|sacado las manos y se haba impulsado.
[30123][30135]Si.
[30143][30167]Ah es exactamente|donde enterramos a Cain.
[30176][30193]Su cuerpo ha desaparecido.
[30203][30221]Tal vez alguien que|sabe lo que pas...
[30221][30246]lo rob y quiere que pienses|que ha vuelto de la muerte.
[30248][30269]Hay un montn de cosas que|estn pasando ahora mismo...
[30269][30286]que no se pueden|explicar fcilmente.
[30289][30307]Tenemos que

ser abiertos de mente.
[30326][30346]Entonces, cul es nuestro|prximo movimiento?
[30358][30379]Tengo una llamada|importante en la estacin.
[30386][30406]Mi hija est en el Ayuntamiento...
[30406][30421]en la fiesta de Noche de Brujas.
[30427][30461]Ve a buscarla y|trela a la estacin.
[30472][30509]Bien, ya que estamos en ese tema...
[30519][30544]dado que me dijiste la verdad,|creo que es lo correcto...
[30544][30570]que yo tambin te diga la verdad.
[30615][30622]Qu es?
[30672][30684]Jennifer,
[30694][30704]nos hemos estado viendo.
[30714][30733]- Por cunto tiempo?|- Cuatro meses.
[30733][30751]Mira, siento no haber dicho nada,
[30752][30775]es slo que no quera|decir demasiado...
[30771][30787]antes de que las cosas se desarrollaran,|de lo contrario,
[30787][30798]las cosas se habran puesto incmodas.
[30798][30818]- Vas en serio con ella?|- Mucho.
[30823][30857]La amo y...|Creo que ella tambin me ama a m.
[30983][30995]Toma esto...
[31005][31032]para proteccin,|y ve a buscar a Jennifer...
[31047][31062]y
llvala a la estacin.
[31066][31078]Lo tengo.
[31242][31267]As que acordamos encontrarnos|en este bar al principio,
[31275][31302]y tom como siete gin tonics...
[31302][31321]en el espacio de una hora.
[31322][31336]El bar tender me avis...
[31336][31352]mientras el tipo estaba en el bao.
[31357][31384]Pero an as termin|yendo a otro bar con l.
[31387][31416]Pidi guacamole y se neg|a compartirlo conmigo,
[31422][31437]mientras afirmaba que iba a...
[31438][31462]lanzar a todos los|hpsters a la calle.
[31468][31484]Qu idiota.
[31496][31522]Al final fuimos a esta|cafetera toda la noche,
[31524][31551]en parte para que se pusiera sobrio,|y en parte porque...
[31551][31573]haba olvidado su nombre, y pens...
[31573][31588]que lo escribiran en su vaso.
[31597][31622]As que supongo que no hubo|una segunda cita, entonces.
[31622][31634]No.
[31638][31663]Creo que le dar un descanso|a las citas por un tiempo.
[31676][31692]Cmo van las cosas con Brodie?
[31709][31725]Todava no se
lo he|dicho a mi padre.
[31726][31742]No estoy segura de|cmo reaccionar.
[31751][31766]Estoy segura de que estar bien.
[31772][31783]No contratara a Brodie...
[31783][31803]si no creyera que es|un tipo responsable.

[31814][31826]Cierto.
[31843][31877]Le has dicho a Brodie|que ests embarazada?
[31885][31897]Qu?
[31907][31927]Cmo lo supiste?
[31925][31952]Estamos en una fiesta|y t bebes agua.
[31953][31972]Esa no es la Jennifer que conozco.
[31974][31993]Me hice la prueba hoy mismo.
[32001][32014]Enhorabuena.
[32021][32039]- Cmo te sientes?|- Slo...
[32049][32063]nerviosa, ahora mismo.
[32066][32081]No s si estoy lista.
[32081][32112]No tengo ni idea de|cmo se sentir Brodie.
[32114][32132]Es un gran paso.
[32141][32163]No te preocupes, te adora.
[32168][32181]Estar encantado.
[32181][32203]Va a ser un golpe|doble para mi padre.
[32205][32233]Descubrir que estoy viendo a|alguien que trabaja para l...
[32233][32245]y va a ser abuelo?
[32257][32269]Ya est bastante estresado.
[32269][32298]Oye,|no
hay nada de qu preocuparse.
[32309][32335]Una vez que el polvo se asiente,|estar contento.
[32356][32375]S lo difcil que fue para los dos...
[32375][32398]cuando tu madre muri.
[32406][32439]No hay otra manera de ver esto|que como un evento feliz.
[32457][32471]Gracias, Ellie.
[32522][32543]John, ese nmero de telfono,
[32548][32571]al que Cain llam cuando fue|arrestado por primera vez.
[32574][32589]Ya tienes una direccin?
[32657][32669]Si.
[32691][32702]Si.
[32728][32745]Gracias, John.
[33277][33291]Buenas noches.
[33307][33337]Sabe, un hombre que lleva un arma|no me parece tan seguro de s.
[33343][33381]De hecho,|veo a un hombre asustado ante m.
[33382][33396]Vincent Crowley?
[33401][33414]Quin quiere saber?
[33431][33443]Me llamo Hollister.
[33451][33465]Soy un Oficial de Polica.
[33469][33487]Quiero hablarte de Jack Cain.
[33505][33522]Siempre estoy abierto a conversar.
[33531][33547]Pero encuentro que es|mucho ms agradable...
[33547][33563]sin un arma apuntndome.
[33663][33675]Sintate.
[33787][33812]Qu
es lo que le gustara|saber sobre Jack Cain?
[33837][33853]Cuando fue arrestado,
[33854][33876]fuiste la primera persona|a la que llam. Por qu?

[33891][33903]Soy su amigo.
[33915][33927]Jack no tena muchos.
[33989][34011]Veo que compartes un|inters por lo oculto.
[34032][34054]Tomo lo "oculto",|como usted lo llama...
[34054][34079]como lo que es percibido negativamente|en su mundo.
[34093][34109]Si se usa para hacer|dao a la gente.
[34136][34159]Lo oculto es simplemente un|estudio de lo desconocido.
[34164][34191]Explora los lmites de|nuestras percepciones,
[34192][34215]nuestras verdades,|nuestros potenciales.
[34221][34237]No es ni bueno, ni malo.
[34261][34285]Por lo que encontramos en su casa,
[34292][34308]s que Jack Cain lo estaba usando.
[34326][34351]Jack siempre estuvo interesado|en explorar los lmites...
[34351][34375]entre la vida y la muerte.
[34374][34388]Consider la posibilidad de...
[34388][34408]que el mundo|que se nos presenta...
[34408][34426]puede
que no sea todo lo que hay.
[34436][34448]Es eso un crimen?
[34452][34464]No.
[34471][34486]Pero asesinar a dos|personas s lo es.
[34521][34548]- Crees que el asesinato es gracioso?|- No, seor Hollister.
[34548][34573]Lo que me divierte es cmo una mentira|contada durante el tiempo suficiente...
[34573][34597]puede convertirse en una verdad en|las mentes de los hombres comunes.
[34597][34609]Crees que es inocente?
[34618][34646]La noche que esos chicos fueron|asesinados, Jack estaba conmigo.
[34649][34669]Fuimos bienvenidos en|el solsticio de verano...
[34669][34695]en Sacramento Bay con|un grupo de amigos.
[34711][34731]No volvimos a casa|hasta despus de que...
[34731][34747]esos cuerpos fueran descubiertos.
[34753][34773]T y esos amigos que mencionas...
[34790][34811]por qu no hicieron una|declaracin en su defensa?
[34816][34842]No era necesario, como sabe.
[34852][34877]Pero considere esto, seor Hollister.
[34877][34897]Su sistema realmente|habra aceptado la palabra...
[34897][34905]de
gente como nosotros?
[34922][34947]Somos los parias de su sociedad.
[34952][34977]Somos los perros que dejan|a un lado de la carretera.
[34977][34997]No encajamos en sus convenciones,
[34997][35027]por lo tanto somos|excluidos y perseguidos.
[35042][35063]Bueno, no quiero entrar|en un debate sobre esto.
[35075][35089]Slo quiero saber una cosa.
[35095][35107]Estas...
[35118][35133]prcticas.
[35152][35166]Pueden hacer que|una persona sea capaz...
[35166][35196]de desafiar las leyes de, no s...
[35206][35218]la fsica?

[35226][35243]Una pregunta intrigante.
[35258][35274]Parece que su mente|se est abriendo...
[35274][35318]a las posibilidades ms all del|pensamiento convencional terrenal.
[35331][35348]Slo dime en qu crea Jack Cain.
[35361][35373]Aydame a entender.
[35389][35408]Qu es lo que quiere entender,|seor Hollister?
[35417][35448]Qu pas antes de que lo mataran,|o despus?
[35481][35526]No soy una amenaza para usted,|seor Hollister. Por favor, reljese.
[35621][35649]A lo
nico que le teme|un hombre, es a la verdad.
[35663][35681]As que si voy a|ofrecerle la verdad,
[35691][35718]- est listo para aceptarla?|- S.
[35767][35788]La ocupacin romana de|Gran Bretaa dur entre...
[35788][35816]el ao 43 d.C. y|alrededor del ao 400 d.C.
[35823][35857]Antes de que los Romanos invadieran,|el sacerdocio Druida...
[35851][35874]eran el poder|indiscutible de la tierra.
[35881][35904]La historia est escrita|por los vencedores.
[35918][35933]Cuando los Romanos|conquistaron a los Celtas...
[35933][35963]dieron descripciones poco|halagadoras de los Druidas.
[35972][36001]Algunos los describieron como|brbaros sedientos de sangre.
[36001][36022]Que ofrecan sacrificios humanos.
[36036][36076]Otros sostienen que los Druidas|eran gentiles y pacficos.
[36087][36128]Y mantuvieron su autoridad al estar|en contacto con la naturaleza.
[36149][36174]La verdad est en|algn punto intermedio.
[36183][36214]Los Druidas si hicieron|sacrificios humanos,
[36214][36237]pero eran autosacrificios.
[36252][36291]Durante
el Samhain,|especialmente el 31,
[36301][36324]cuando el velo entre|los vivos y los muertos...
[36324][36357]estaba en su punto ms delgado,|algunos de los Druidas...
[36359][36386]sacrificaron sus|vidas voluntariamente.
[36406][36422]Crean que su sangre de sacrificio...
[36423][36456]filtrada por el suelo podra|incluso tener el poder...
[36457][36474]de... Levantar a los muertos.
[36519][36525]Jack Cain lo crea?
[36549][36562]Su mente estaba abierta.
[36568][36584]- Y la suya?|- Qu quieres decir?
[36607][36625]Se cometi una injusticia.
[36635][36658]El pueblo se volvi|contra un hombre inocente...
[36658][36665]y fue ejecutado,
[36669][36689]y ahora ha vuelto para vengarse.
[36692][36726]Y con cada alma que l...|Absorbe...
[36726][36762]se vuelve ms y ms poderoso.
[36772][36796]Por supuesto que hay otra|explicacin para todo esto.
[36798][36825]- Cul es?|- T eres el que ha vuelto para vengarse.
[36841][36857]Ay, seor Hollister!
[36864][36901]Se acerc tanto a una|forma

superior de comprensin.
[36909][36925]Pero se asust...
[36932][36967]as que ha vuelto a su|perspectiva convencional terrenal.
[36971][37003]En el trabajo policial normalmente|la explicacin ms simple...
[37003][37015]suele ser la correcta.
[37019][37042]Y ahora qu? Me arrestar?
[37043][37063]Parece el siguiente paso lgico.
[37073][37085]No, seor Hollister.
[37086][37106]El siguiente paso lgico|sera pasar pgina...
[37106][37132]del libro de los Druidas|y hacer un autosacrificio...
[37132][37144]para salvar a su ciudad.
[37155][37178]Jack Cain ya no es humano.
[37181][37204]Se est volviendo ms que humano.
[37208][37238]l es su Dios ahora,|y es un Dios vengativo.
[37238][37263]Buscando castigar a los|que lo persiguieron.
[37269][37294]Slo un autosacrificio|lo apaciguar.
[37675][37701]- Es el verdadero McCoy.|- S.
[37763][37777]El padre de tu beb est aqu.
[37777][37799]Dios mo, odio esa expresin.
[37801][37834]Mejor que te acostumbres.|Tengo que ir al bao.
[37837][37854]Los dejo solos.
[37886][37907]Puedo
hablar contigo|en privado un momento?
[37987][37999]Qu sucede?
[38011][38041]- Mi padre est bien?|- Est bien, ms o menos.
[38043][38055]Qu quieres decir?
[38056][38075]Me ha pedido que te|lleve a la estacin.
[38075][38086]Por qu?
[38087][38103]Sabes que mencion que|Johnny Tramer se suicid?
[38106][38118]- S?|- Encontramos otros cuatro cuerpos.
[38127][38132]- Dios mo!|- Joe Johnson,
[38134][38153]Mike Anderson,|Milton Boggs y Vernica.
[38153][38179]- Qu pas?|- Todos asesinados.
[38186][38206]Dios mo!|Han averiguado quin lo hizo?
[38206][38218]No, todava no.
[38218][38239]Tenemos a nuestros chicos|patrullando las calles.
[38241][38257]Tu padre me ha pedido|que venga a buscarte.
[38257][38272]No deberamos quedarnos aqu?
[38272][38291]Quiero decir,|hay mucha gente alrededor.
[38297][38324]Quienquiera que haya matado a|esa gente, no va a venir aqu.
[39737][39755]Qu es lo que pasa?
[39774][39794]Dulce o truco.
[39983][39999]Vayan por ah, vayan por ah.
[40051][40063]Aljense
de l!
[40124][40155]No, por favor, no.|Qu cojones eres?
[40427][40441]Aljate de m!
[40626][40638]Oye, t!

[40678][40693]Ven y toma un poco de esto.
[40714][40726]Vamos.
[41041][41061]- No, no lo hagas.|- Est bien.
[41242][41252]No hay pulso.
[41294][41306]No est respirando.
[41404][41418]Ayuda!
[41544][41556]Ven aqu.
[41559][41571]Qu est pasando?
[41573][41591]Ven aqu, ven aqu,|ven aqu, ven aqu.
[41637][41649]Oye.
[41655][41688]Comet un terrible error,|pero voy a compensarlo.
[41724][41736]Ay, Dios mo!
[41739][41756]Pens que estabas muerto.
[41763][41775]Est bien.
[41787][41804]No, no, estoy preocupada.
[41814][41826]Brodie.
[41837][41856]Llvate a mi hija y vyanse|de aqu.
[41856][41875]Qu vas a hacer t?
[41885][41909]Slo cuida de ella.
[41966][41978]Lo har.
[42038][42057]No, pap, t vienes con nosotros.
[42061][42084]No tengo tiempo para discutir.|Vete.
[42091][42117]Pap, no me ir de aqu sin ti.
[42184][42197]De acuerdo.
[42204][42217]Vamos.
[42381][42405]No, pap!|Qu ests haciendo?
[42405][42438]No,
no!
[42433][42445]Pap!
[42565][42601]Es hora de pagar por lo|que hiciste, Hollister.
[42626][42649]Por primera vez t y|yo estamos de acuerdo.
[42662][42676]Esto termina aqu y ahora.
[42754][42776]Tal vez t y yo|encontremos la redencin.
[42787][42807]Entonces, nos veremos en el Cielo.
[42837][42858]A quin estoy engaando?
[42892][42905]Te ver en el Infierno.
[43243][43276]El 31 de octubre es|normalmente el momento...
[43276][43285]para un susto seguro.
[43288][43308]El momento en que los|nios van a pedir dulces...
[43309][43326]y los adultos ven|pelculas de terror,
[43329][43354]pero anoche los|residentes de Dunwich...
[43355][43376]experimentaron un|horror de la vida real,
[43376][43407]mientras una fiesta de Noche de Brujas|se transform en una pesadilla.
[43416][43443]El Ayuntamiento qued|envuelto en llamas...
[43444][43473]y se cree que una docena|de personas han muerto.
[43474][43497]Varias
personas estn|heridas de gravedad...
[43497][43525]y se espera que el nmero|de muertos aumente.

[43531][43559]El Departamento de Bomberos local,|an no ha confirmado...
[43559][43584]la causa del incendio,|pero varios testigos...
[43584][43611]han afirmado que|antes de la explosin...
[43612][43648]un hombre enmascarado|no identificado entr en el edificio.
[43648][43688]Con un arma, hiriendo y|matando a varios asistentes.
[43691][43717]El Departamento de Polica|se ha negado a comentar...
[43717][43733]sobre estos reportes.
[43803][43862]UN AO MS TARDE
[44043][44087]Esto es WKB y yo soy|Jennifer Hollister, despidindome.
[44093][44112]Estimados oyentes...
[44124][44144]feliz Noche de Brujas!
[44926][44975]FRANK HOLLISTER|1976 - 2018
[45423][45472]JACK CAIN|1978 - 2018
[45646][45726]The Legend of Halloween Jack (2018)|Una traduccin de|TaMaBin
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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 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
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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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because its license has a choice of law clause. According to
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Thanks to the many outside volunteers who have worked under Guido's
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1.754 libssh 0.10.6-2ubuntu0.2

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1.755 libxml2 2.9.14+dfsg-1.3ubuntu3.6

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1.756 pyo3 0.23.5

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1.757 pem 3.0.4

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1.758 pyo3-ffi 0.23.5

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1.759 once_cell 1.20.2

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1.760 asn1 0.20.0

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

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1.770 x-sync 0.18.0

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1.771 x-sys 0.38.0

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1.772 libatomic 14.2.0-4ubuntu2~24.04

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```
#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
```

#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif

#endif /* __VTV_H__ */
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02110-1301, USA. */

#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
difficult for the compiler to generate a call to this. These are

```
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#elif defined(__loongarch_lp64)
/* The page size is configurable by the kernel to
 be 4, 16 or 64 KiB.
  For now, only the default page size of 16KiB is supported.  */
#define VTV_PAGE_SIZE 16384
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

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Julian Seward, jseward@bzip.org
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/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for debugger output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
```

```
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered
 label where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"
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                       Preamble
```

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1.773 python 3.12.3-0ubuntu2.1

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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
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In 1995, Guido continued his work on Python at the Corporation for National
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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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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
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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
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2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
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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
3.0	2.6	2008	PSF	yes
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1.775 x-text 0.31.0

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1.776 klauspost-compress 1.17.9

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./lib/crypto/configure and
./lib/wx/configure and
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* Git Repository: https://github.com/asmjit/asmjit
* Commit: 23ddf56b00f47d8aa0c82ad225e4b3a92661da7e
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* Version: 8.44
* Website: https://pcre.org
* OTP Location: ./erts/emulator/pcre

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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.

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The basic library functions are written in C and are freestanding. Also
included in the distribution is a set of C++ wrapper functions, and a
just-in-time compiler that can be used to optimize pattern matching. These

are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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[zlib]

*
 Info:
 * SPDX-License-Identifier: Zlib
 * Library: Zlib
 * Version: 1.2.12
 * Website: https://zlib.net/
 * OTP Location: ./erts/emulator/zlib

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.12, March 11th, 2022

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

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

[ryu]

* Info:
 * SPDX-License-Identifier: Apache-2.0 OR BSL-1.0
 * Library: RYU
 * Git repository: https://github.com/ulfjack/ryu
 * Commit: 844864ac213bdbf1fb57e6f51c653b3d90af0937
 * OTP Location: ./erts/emulator/ryu

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 * Library: STL
 * Git repository: https://github.com/microsoft/STL
 * Commit: e745bad3b1d05b5b19ec652d68abb37865ffa454
 * Original function:
https://github.com/microsoft/STL/blob/e745bad3b1d05b5b19ec652d68abb37865ffa454/stl/inc/xcharconv_ryu.h#L1926
 * OTP Location: ./erts/emulator/ryu/d2s.c:to_chars()

// xcharconv_ryu.h internal header

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 * Git Repository: https://github.com/Maratyszcza/FP16
 * Commit: 0a92994d729ff76a58f692d3028ca1b64b145d91
 * OTP Location: ./erts/emulator/beam/erl_bits_f16.h

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[OpenSSL MD5 implementation]

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 * Version: 3.1.4
 * Git Repository: https://github.com/openssl/openssl
 * Commit: 01d5e2318405362b4de5e670c90d9b40a351d053
 * OTP Location: ./erts/emulator/openssl and
 ./lib/erl_interface/src/openssl

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 ./lib/parsetools/doc/src/leex.xml

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 * Git Repository: https://github.com/etnt/eldap.git
 * Commit: 36c595f56c12a44adbc942eef218df85137cbbee
  * OTP Location: ./lib/eldap/src/eldap.erl

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 * Commit: dc585039bbd426829e3433002023a93f9bedd0c2
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1.779 grpc-go 1.77.0

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1.780 libdrm 2.4.122-1~ubuntu0.24.04.2

1.780.1 Available under license :

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

#

Found in path(s):
* /libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/Android.mk
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/CONTRIBUTING.rstContributing to libdrm
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-

2.4.122/amdgpu/meson.build#
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/android/gralloc_handle.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/data/meson.build# Copyright © 2017-2018 Intel Corporation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/etnaviv/etnaviv_bo.c/*
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SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/etnaviv/meson.build#
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/exynos/exynos_drm.c/*
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/exynos/fimg2d_reg.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/exynos/meson.build#
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/freedreno/freedreno_bo.c/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
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2.4.122/freedreno/freedreno_bo_cache.c/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
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2.4.122/freedreno/freedreno_device.c/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
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-*- */
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2.4.122/freedreno/freedreno_priv.h/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
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2.4.122/freedreno/freedreno_ringbuffer.c/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
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2.4.122/freedreno/freedreno_ringbuffer.h/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
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2.4.122/freedreno/kgsl/kgsl_bo.c/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t;
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2.4.122/freedreno/kgsl/kgsl_device.c/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-
2.4.122/freedreno/kgsl/kgsl_pipe.c/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-
2.4.122/freedreno/kgsl/kgsl_priv.h/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-
2.4.122/freedreno/kgsl/kgsl_ringbuffer.c/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-
2.4.122/freedreno/meson.build# Copyright © 2017-2018 Intel Corporation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-
2.4.122/freedreno/msm/msm_bo.c/*
-*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-
2.4.122/freedreno/msm/msm_device.c/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-
2.4.122/freedreno/msm/msm_pipe.c/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-
2.4.122/freedreno/msm/msm_priv.h/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-
2.4.122/freedreno/msm/msm_ringbuffer.c/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-
2.4.122/gen_table_fourcc.py#!/usr/bin/env
python3
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-
2.4.122/include/drm/amdgpu_drm.h/* amdgpu_drm.h -- Public header for the amdgpu driver -*- linux-c -*-
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-
2.4.122/include/drm/drm.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-
2.4.122/include/drm/drm_fourcc.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-

2.4.122/include/drm/drm_mode.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/drm_sarea.h/**
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/i915_drm.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/mach64_drm.h/* mach64_drm.h
-- Public header for the mach64 driver -*- linux-c -*-
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/mga_drm.h/* mga_drm.h -- Public header for the Matrox g200/g400 driver -*- linux-c -*-
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/msm_drm.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/nouveau_drm.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/qxl_drm.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/r128_drm.h/* r128_drm.h -- Public header for the r128 driver -*- linux-c -*-
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/radeon_drm.h/* radeon_drm.h -- Public header for the radeon driver -*- linux-c -*-
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/savage_drm.h/*
savage_drm.h -- Public header for the savage driver
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/sis_drm.h/* sis_drv.h -- Private header for sis driver -*- linux-c -*- */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/vc4_drm.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/via_drm.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/virtgpu_drm.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/include/drm/vmwgfx_drm.h/**********
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/Android.mk#
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/intel_aub.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/intel_bufmgr.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/intel_bufmgr.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/intel_bufmgr_fake.c/*********
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/intel_bufmgr_gem.c/*********

/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/intel_bufmgr_priv.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/intel_chipset.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/intel_debug.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/intel_decode.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/meson.build#
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/mm.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/mm.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/test_decode.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/intel/uthash.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/libdrm_lists.h/**********
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/libdrm_macros.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/libsync.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/man/meson.build#
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/meson.build# Copyright © 2017-2018 Intel Corporation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/meson_options.txt# Copyright © 2017 Intel Corporation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/nouveau/abi16.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/nouveau/bufctx.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/nouveau/meson.build# Copyright
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/nouveau/nouveau.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/nouveau/pushbuf.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/omap/meson.build# Copyright © 2017 Intel Corporation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/omap/omap_drm.c/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/omap/omap_drm.h/* -*- mode: C; c-file-style: "k&r"; tab-width 4; indent-tabs-mode: t; -*- */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/omap/omap_drmif.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/bof.c/*

/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/bof.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/meson.build#
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/radeon_bo.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/radeon_bo.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/radeon_bo_gem.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/radeon_bo_gem.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/radeon_cs.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/radeon_cs_gem.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/radeon_cs_gem.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/radeon_cs_space.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/radeon_surface.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/radeon/radeon_surface.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tegra/channel.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tegra/job.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tegra/meson.build#
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tegra/private.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tegra/pushbuf.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tegra/syncpt.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tegra/tegra.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tegra/tegra.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/amdgpu_stress.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/amdgpu_test.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/amdgpu_test.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/basic_tests.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/bo_tests.c/*

/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/cp_dma_tests.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/cs_tests.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/deadlock_tests.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/decode_messages.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/frame.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/hotunplug_tests.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/jpeg_tests.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/meson.build#
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/ras_tests.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/security_tests.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/shader_code.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/shader_code_gfx10.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/shader_code_gfx11.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/shader_code_gfx9.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/shader_code_hang.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/syncobj_tests.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/uvd_enc_tests.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/uve_ib.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/vce_ib.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/vce_tests.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/vcn_tests.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/amdgpu/vm_tests.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/drmdevice.c/*

/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/drmsl.c/*
drmsl.c -- Skip list test
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/etnaviv/cmdstream.xml.h#ifndef
CMDSTREAM_XML
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/etnaviv/etnaviv_2d_test.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/etnaviv/etnaviv_bo_cache_test.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/etnaviv/etnaviv_cmd_stream_test.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/etnaviv/meson.build# Copyright © 2017-2018 Intel Corporation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/etnaviv/state.xml.h#ifndef STATE_XML
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/etnaviv/state_2d.xml.h#ifndef STATE_2D_XML
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/etnaviv/write_bmp.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/etnaviv/write_bmp.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/exynos/exynos_fimg2d_event.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/exynos/exynos_fimg2d_perf.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/exynos/exynos_fimg2d_test.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/exynos/meson.build#
Copyright © 2017 Intel Corporation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/hash.c/*
xf86drmHash.c -- Small hash table support for integer -> integer mapping
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/meson.build#
Copyright © 2017-2018 Intel Corporation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/modeprint/meson.build# Copyright © 2017 Intel Corporation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/modeprint/modeprint.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/modetest/buffers.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/modetest/buffers.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/modetest/cursor.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/modetest/cursor.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-

2.4.122/tests/modetest/meson.build# Copyright ©
2018 Intel Corporation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/modetest/modetest.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/nouveau/meson.build# Copyright © 2017 Intel Corporation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/nouveau/threaded.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/proptest/meson.build# Copyright © 2017 Intel Corporation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/proptest/proptest.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/radeon/meson.build# Copyright © 2017 Intel Corporation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/radeon/radeon_ttm.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/radeon/rbo.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/radeon/rbo.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/drm-test-tegra.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/drm-test-tegra.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/drm-test.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/drm-test.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/gr2d-fill.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/host1x.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/meson.build#
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/openclose.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/syncpt-timeout.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/syncpt-wait.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic-blit.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic-clear.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic-flip.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-

2.4.122/tests/tegra/vic.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic30.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic30.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic40.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic40.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic41.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic41.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic42.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/tegra/vic42.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/ttmtest/src/xf86dri.c/*
$XFree86: xc/lib/GL/dri/XF86dri.c,v 1.13 2002/10/30 12:51:25 alanh Exp $ */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/ttmtest/src/xf86dri.h/* $XFree86: xc/lib/GL/dri/xf86dri.h,v 1.8 2002/10/30 12:51:25 alanh Exp $ */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/ttmtest/src/xf86dristr.h/* $XFree86: xc/lib/GL/dri/xf86dristr.h,v 1.10 2002/10/30 12:51:25 alanh Exp $ */
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/util/Android.mk#
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/util/common.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/util/format.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/util/format.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/util/kms.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/util/kms.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/util/meson.build#
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/util/pattern.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/util/pattern.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/vbltest/meson.build# Copyright © 2017-2018 Intel Corporation

/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/tests/vbltest/vbltest.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/util_double_list.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/util_math.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/vc4/meson.build#
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/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/vc4/vc4_packet.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/vc4/vc4_qpu_defines.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86atomic.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drm.c/**
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drm.h/**
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drmHash.c/* xf86drmHash.c -- Small hash table
support for integer -> integer mapping
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drmHash.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drmMode.c/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drmMode.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drmRandom.c/* xf86drmRandom.c -- "Minimal Standard" PRNG Implementation
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drmRandom.h/*
/opt/cola/permits/2770292793_1763608721.4364276/0/libdrm-2-4-122-orig-1-tar-xz/libdrm-2.4.122/xf86drmSL.c/*
xf86drmSL.c -- Skip list support

Found in path(s):
*

1.781 x-crypto 0.45.0

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1.782 zap-exp 1.27.1

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1.783 zap 1.27.1

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1.784 prometheus-common 0.67.4

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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 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
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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
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2.1.1	2.1+2.0.1	2001	PSF	yes
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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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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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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 was created in the early 1990s by Guido van Rossum at Stichting
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principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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	from		compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI yes
1.6	1.5.2	2000	CNRI no
2.0	1.6	2000	BeOpen.com no
1.6.1	1.6	2001	CNRI yes (2)
2.1	2.0+1.6.1	2001	PSF no
2.0.1	2.0+1.6.1	2001	PSF yes
2.1.1	2.1+2.0.1	2001	PSF yes
2.1.2	2.1.1	2002	PSF yes
2.1.3	2.1.2	2002	PSF yes
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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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1.789 genproto-googleapis-rpc 0.0.0-20251124214823-79d6a2a48846

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1.790 gqlparser 2.5.31

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1.791 publicsuffix-go 0.50.1

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1.793 golang 1.25.5

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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
```

```
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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1.798 apparmor 4.0.1really4.0.1-0ubuntu0.24.04.5

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

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localtime.go, localtime_test.go:

Originals:
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go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
  https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:
  * Renamed files from civil* to localtime*.
  * Package changed from civil to toml.
  * 'Local' prefix added to all structs.
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1.814 x-crypto 0.46.0

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1.815 cups 2.4.7-1.2ubuntu7.9

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1.818 lz4 4.1.21

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1.819 libsoup3 3.4.4-5ubuntu0.6

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/*
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```
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*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
  defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

  /* disk geometry: */
 uint32_t d_secsize;  /*
 # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /* # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
 uint32_t d_secperunit;  /* # of data sectors per unit */

 /*
  * Spares (bad sector replacements) below
  * are not counted in d_nsectors or d_secpercyl.
  * Spare sectors are assumed to be physical sectors
  * which occupy space at the end of each track and/or cylinder.
  */
```

```
uint16_t d_sparespertrack; /* # of spare sectors per track */
uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders;  /* # of alt. cylinders per unit */

  /* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /*
track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /* drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */

  /* filesystem and partition information: */
uint16_t d_npartitions;         /* number of partitions in following */
uint32_t d_bbsize;         /* size of boot area at sn0, bytes */
uint32_t d_sbsize;         /* max size of fs superblock, bytes */

struct bsd_partition  {  /* the partition table */
 uint32_t p_size;         /* number of sectors in partition */
 uint32_t p_offset;       /* starting sector */
```

```
  uint32_t p_fsize;       /* filesystem basic fragment size */
  uint8_t  p_fstype; /* filesystem type, see below */
  uint8_t  p_frag;  /* filesystem fragments per block */
  uint16_t p_cpg;         /* filesystem cylinders per group */
 } __attribute__((packed))
 d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values: */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7
   3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */
```

```
/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /*
 removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
```

1.821 libsoup 3.4.4-5ubuntu0.6

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1.822 systemd 255.4-1ubuntu8.12

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1.825 logrus 1.9.4-0.20230606125235-dd1b4c2e81af

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1.826 json-java 20240303

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Affiliate means, in relation to a party, any entity that directly or indirectly controls, is controlled by, or is under direct or indirect common control with such party, or which is a
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(a) End User Affiliates will have the right to make purchases pursuant to this Agreement by executing an Order Form (or issuing a purchase order referencing an Order Form) and agreeing to be bound by this Agreement. Where an Affiliate makes a purchase pursuant to this Agreement, references to each party in the Agreement shall be read as references to the Affiliate of each party stated on the Order Form. If an End User Affiliate purchases under this Agreement, then a separate Agreement will be deemed made between AppDynamics (or its Affiliate, as applicable) and such End User Affiliate.

(b) End User may also permit Affiliates to use the Software provided that: (1) End User shall procure that its Affiliates comply with the terms of this Agreement, and End User shall remain liable for all acts and omissions of its Affiliates;
(2) only End User may bring actions against AppDynamics with respect to any losses, damage or liabilities suffered or incurred by any Affiliate caused by the Software; and (3i) the exclusions and limitations of liability in this Agreement will apply to End User and End User Affiliates as a whole, so that they apply to all liabilities incurred under or in connection with this Agreement by AppDynamics to End User and End User Affiliates in aggregate.

1.5 MAINTENANCE AND SUPPORT.

Support is defined as AppDynamics' obligations to respond to support requests as described in Exhibit A (Enterprise Support). Maintenance has the meaning given in the Exhibit A. Subject to End Users payment of the fees set forth in the applicable Order Form(s), AppDynamics will (a) provide Maintenance and Support for the Software; and (b) solely if End User has purchased access to the software-as-a-service version of the Software, provide Availability (as defined in Exhibit B) in accordance with Exhibit B
(Availability). For time-limited licenses for the Software (as set forth in an Order Form, Subscription Licenses), the fees for Maintenance and Support are included in the fees for the Software. For perpetual licenses, (a) AppDynamics shall invoice End User the applicable fees for Maintenance and Support (Maintenance and Support Fees) upon

execution of the Order Form, and (b) subject to payment of the Maintenance and Support Fees, AppDynamics will provide Support for the Maintenance and Support period set forth in the Order Form (the Maintenance and Support Term). If Maintenance and Support terminates with respect to any perpetual licenses, then End User may reinstate Maintenance and Support on payment of the cumulative Maintenance and Support Fees applicable for the period during which Maintenance and Support lapsed, plus Maintenance and Support Fees for the reinstated Maintenance and Support Term.

1.6 SERVICES.

AppDynamics will provide training, enablement and/or other services described in an Order Form (or statement of work referencing this Agreement), if any (Services). The license in Section 1.1 applies to any educational, training and other informational materials resulting from the Services. All Services will be rendered on a time and materials basis. AppDynamics will not exceed the total time purchased without prior written approval from End User. If not used, pre-purchased Services and expenses expire 12 months after the date purchased (unless otherwise agreed in the applicable Order Form). End User agrees to provide reasonable cooperation and information as necessary to permit AppDynamics to perform the Services. End User will reimburse AppDynamics for travel and expenses (at cost) incurred in connection with the Services (if any) by the Invoice Due Date (as defined below). Services will be performed on business days (a business day means Monday through Friday, excluding national holidays, during working hours, in the location where the Services are delivered). Saturday Services, and hours worked during the week that exceed the local working hours in a week, will only be worked with prior approval from End User and will be charged at 1.5 x the agreed rate. Services performed on Sundays or national holidays will be charged at 2 x the agreed rate. If End User cancels or delays any scheduled Services less than ten business days before the start date of such Services, then AppDynamics will use reasonable efforts to reallocate the resource for the cancelled Services. If AppDynamics is unable to reallocate such resources AppDynamics may deduct from End User's pre-paid Services (or End User will pay for) the amount of Services that were scheduled in any of the ten business days following the date of cancellation (or notification of the delay, as applicable), and End User will fully reimburse AppDynamics for any reasonable travel and expenses incurred by AppDynamics for such Services (and for any Services rescheduled by End User) for which AppDynamics is unable to obtain a refund.

1.7 EXPORT.

The Software and Documentation are subject to local and extraterritorial export control laws and regulations. Each party will comply with such laws and regulations governing use, export, re-export, and transfer of the Software and Documentation and will obtain all required local and extraterritorial authorizations, permits or licenses.

2. FEES.

2.1 PRICING.

End User will be invoiced for the amounts and set forth in an Order Form (the Fees). If End Users usage of the Software is in excess of those amounts set forth in the Order Form, End User may be billed for those overages. If AppDynamics believes in good faith that End Users usage of the Software exceeds that set forth on the applicable Order Form, for on-premises deployments, End User agrees to report to AppDynamics (or allow AppDynamics to audit) the quantity of Software license units used by End User, upon at least three business days notice. AppDynamics may monitor at any time the quantity of Software license units used by End User for SaaS deployments of the Software.

2.2 PAYMENTS.

End User shall pay invoices within 30 days of the invoice date (the Invoice Due Date). All payment obligations are non-cancelable and all amounts paid are non-refundable, except as otherwise set forth in this Agreement. The Fees are exclusive of any relevant local sales taxes for which End User shall be responsible. AppDynamics shall have no responsibility for any Fees that are not received due to inaccurate or missing information provided by End User. End User shall pay interest on all payments not received by the Invoice Due Date at a rate of 1% per month or the maximum amount allowed by law, whichever is lesser. All amounts due under this Agreement shall be paid by End User in full without any set-off, counterclaim, deduction or withholding (other than any deduction or withholding of tax as required by law). If requested by AppDynamics, End User will obtain and furnish to AppDynamics tax receipts or other certificates issued by the competent taxation office showing the payments of the withholding tax within a reasonable time after payment. Following notice, AppDynamics may suspend End Users access to the Software if payments are not received within 30 days of the Invoice Due Date. If End User purchases the Software, Services or both from an authorized partner of AppDynamics, the payment terms in the agreement between the partner and End User will apply.

3. CONFIDENTIALITY

3.1 SCOPE AND RESTRICTIONS.

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3.3 EQUITABLE RELIEF.

The Receiving Party acknowledges that unauthorized disclosure of the Disclosing Partys Confidential Information could cause substantial harm to the Disclosing Party for which damages alone might not be a sufficient remedy and, therefore, that upon any such disclosure by the Receiving Party, the Disclosing Party may seek appropriate equitable relief in addition to whatever

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to any unauthorized use of the Software. The foregoing shall be End Users sole remedy with respect to any claim of infringement of third party intellectual property rights.

7.2 BY END USER.

Subject to AppDynamics compliance with Section 7.3, End User agrees to defend, at its expense, AppDynamics and its affiliates, its suppliers and its resellers against any third party claim to the extent such claim arises from or is made in connection with End Users breach of Section 1 or End Users negligence or willful misconduct, and End User shall pay all costs and damages finally awarded against AppDynamics by a court of competent jurisdiction as a result of any such claim.

7.3 INDEMNIFICATION REQUIREMENTS.

The following are conditions to any claim for indemnification under this Section 7. The indemnified party must promptly provide the indemnifying party with notice of any claim that the indemnified party believes is within the scope of the obligation to indemnify, provided, that the failure
to provide such notice shall not relieve the indemnifying party of its obligations under this Section 7, except to the extent that such failure materially prejudices the indemnifying partys defense of such claim. The indemnified party may, at its own expense, assist in the defense if it so chooses, but the indemnifying party shall control the defense and all negotiations related to the settlement of any such claim. Any such settlement intended to bind either party shall not be final without the other partys written consent, which consent shall not be unreasonably withheld, conditioned or delayed; provided that, End Users consent shall not be required when AppDynamics is the indemnifying party if the settlement involves only the payment of money by AppDynamics.

8. LIMITATION OF LIABILITY.

8.1 Subject to Section 8.3, in no event shall either party be liable for any indirect, incidental, special, punitive or consequential damages, including damages for loss of revenues or profits, loss
of use, business interruption, or loss of data, whether in an action in contract or tort (including negligence), even if the other party has been advised of the possibility of such damages.

8.2 Subject to Section 8.1 and 8.3, neither partys liability for any damages (whether for breach of contract, misrepresentations, negligence, strict liability, other torts or otherwise) under this agreement shall exceed an amount equal to 100% of the total fees paid (plus Fees payable) to AppDynamics during the 12 months immediately preceding the claim giving rise to such damages. This limitation of liability is aggregate and not per incident. If End User has made an upfront payment of Fees for the entire License Term, the 100% cap shall be calculated by using 12 times the pro rata monthly fee of the fees paid upfront. These limitations shall apply notwithstanding any failure of essential purpose of any remedy.

8.3 Nothing in this Agreement will limit or exclude either partys liability for: (a)
any other matter which by law may not be excluded or limited; (b) in the case of End User, for (1) breach of Section 1.2 (c); and (2) payment of the Fees.

9. FORCE MAJEURE.

Except for payment obligations, neither party hereto will be liable for defaults or delays due to acts of God or the public enemy, acts or demands of any government or governmental agency, fires, earthquakes, floods, other natural disasters, accidents, or other unforeseeable causes beyond its reasonable control and not due to its fault or negligence.

10. DATA COLLECTION.

10.1 Subject to AppDynamics compliance with data protection laws applicable to it, End User acknowledges that AppDynamics may collect information generated by instrumentation and logging systems created through the use and operation of the Software which AppDynamics may use for its internal business purposes.If End User provides AppDynamics with any personally identifiable information (PII), End User represents and warrants that such information
has been collected in accordance with the provisions of all applicable data protection legislation and that End User has all right and consents necessary to provide such PII to AppDynamics.

10.2 If End User is subject to Regulation 2016/679 of the European Parliament and of the Council on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation), the terms of Exhibit C shall apply.

11. US GOVERNMENT MATTERS.

As defined in FAR section 2.101, the Software and Documentation are commercial items and according to DFAR section 252.227 7014(a)(1) and (5) are deemed to be commercial computer software and commercial computer software documentation. Consistent with DFAR section 227.7202 and FAR section 12.212, any use modification, reproduction, release, performance, display, or disclosure of such commercial software or commercial software documentation by the
U.S. Government will be governed solely by the terms of this Agreement and will be prohibited except to the extent expressly permitted by the terms of this Agreement.

12. MISCELLANEOUS.

This Agreement shall be governed by and construed under the laws of the State of California, U.S.A. Failure by either Party to exercise any of its rights under, or to enforce any provision of, this Agreement will not be deemed a waiver or forfeiture of such rights or ability to enforce such provision. If any provision of this Agreement is held by a court of competent jurisdiction to be illegal, invalid or unenforceable, such provision will be amended to achieve as nearly as possible the same economic effect of the original provision and the remainder of this Agreement will remain in full force and effect. This Agreement and its exhibits, together with the Order Form(s) and any statements of work incorporating this Agreement, if applicable, represent the entire agreement between the parties and supersede
any previous or contemporaneous oral or written agreements or communications regarding the subject matter of this Agreement. The person signing or otherwise accepting this Agreement for each party represents that s/he is duly authorized by all necessary and appropriate corporate action to enter this Agreement. Any modification to this Agreement must be in writing and signed by a duly authorized signatory of both parties and no previous, contemporaneous or future oral statements will be deemed to modify this Agreement. Neither the Uniform Commercial Code (UCC) nor the Uniform Computer Information Transactions Act (UCITA) will apply to this Agreement. This Agreement shall control over additional or different terms of any purchase order, confirmation, invoice, statement of work or similar document (other than an AppDynamics Order Form, which will take precedence), even if accepted in writing by both parties, and waivers and amendments to this Agreement shall be effective only if made
by non-pre-printed agreements clearly understood by both parties to be an amendment or waiver to this Agreement. For purposes of this Agreement, including means including without limitation. The rights and remedies of the parties hereunder will be deemed cumulative and not exclusive of any other right or remedy conferred by this Agreement or by law or equity. No joint venture, partnership, employment, or agency relationship exists between the parties as a result of this Agreement or use of the Software. AppDynamics reserves the right to perform its obligations from locations and/or through use of affiliates and subcontractors, worldwide, provided that AppDynamics will be responsible for such parties. End User may not assign this Agreement without the prior written approval of AppDynamics and any purported assignment in violation of this section shall be void; AppDynamics may assign, transfer or subcontract this Agreement in whole or in part. Upon any assignment of this Agreement by End
User that is approved by AppDynamics, any licenses that contain an unlimited aspect will, with respect to End User or the successor entity, as applicable, be capped at the number of authorized Software units in use immediately prior to such assignment. End User agrees that AppDynamics may refer to End User by its trade name and logo, and may briefly describe End Users business, in AppDynamics marketing materials and website. AppDynamics may give

notice to End User by electronic mail to End Users email address on record in End Users account information, or by letter sent by nationally recognized overnight delivery service to End Users address on record in End Users account information. End User may give notice to AppDynamics at any time by letter sent by nationally recognized overnight delivery service or first class postage prepaid mail to AppDynamics at the following address or such other address as may be notified to End User from time to time: AppDynamics, 303 Second Street, North Tower, 8th Floor, San Francisco, CA 94107, Attn: Legal Department. Notice under this Agreement shall be deemed given: (a) when received, if personally delivered; (b) when receipt is electronically confirmed, if transmitted by email; (c) the next business day after it is sent, if sent by first class postage prepaid post; (d) five business days following postage if sent by pre-paid mail; and (e) upon receipt, if sent by certified or registered mail, return receipt requested.

EXHIBIT A

ENTERPRISE SUPPORT

GENERAL REQUIREMENTS.

AppDynamics will provide access to a ticketing system that will be available 24 hours per day, seven days per week. The ticketing system will be maintained by qualified support specialists, who shall provide technical support regarding the Software.

ERROR CLASSIFICATION.

Any reported errors are classified in the following manner, in each case when caused by the Software:

Error Classification	Criteria
Urgent	End User production application is down or there is a major malfunction, resulting in a business revenue loss and impacting the End User application functionality for a majority of users.
High	Critical loss of End User application functionality or performance, impacting the application functionality for a high number of users.
Normal	Moderate loss of End User application functionality or performance, impacting multiple users.
Low	Minor loss of End User application functionality or product feature in question.

ERROR DEFINITION.

An error means a reproducible malfunction in the Software that is reported by End User through AppDynamics ticketing system that prevents the Software from performing in accordance with the operating specifications

described in the then-current Documentation.

AUTHORIZED
SUPPORT CONTACTS.

Maintenance and Support will be provided to End Users designated support contacts.

END USERS OBLIGATION TO ASSIST.

If End User reports a purported error in the Software to AppDynamics, AppDynamics ticketing system will request the following minimum information:
A general description of the operating environment
A list of all hardware components, operating systems and networks
A reproducible test case
Any log files, trace and systems files

End Users failure to provide this information may prevent or significantly delay AppDynamics ability to identify and fix the reported error. AppDynamics time to respond to any error will begin when AppDynamics has received all requested information from the End User and is able to reproduce the error.

ERROR RESOLUTION.

If AppDynamics determines there is an error in the Software, AppDynamics may, at its sole option, repair that error in the version of the Software that End User is currently using or instruct End User
to install a newer version of the Software with that error repaired. AppDynamics reserves the right to provide End User with a workaround in lieu of fixing an error.

MAINTENANCE. Provided End User is current on Fees AppDynamics will make available to End User updates and upgrades to the Software that it, in its sole discretion, makes generally commercially available to all customers.

RESPONSE TIME. AppDynamics shall respond to error tickets in accordance with the tables set forth below. AppDynamics will use reasonable means to repair the error and keep End User informed of progress. AppDynamics makes no representations as to when a full resolution of the error may be made.

Error	Initial Response	Manager Escalation	VP Escalation	Email Status Updates
Urgent	1 Hour	1 Business Day	1 Week	Daily
High	6 Hours	1 Week	2 Weeks	Weekly
Normal	1 Business Day	Quarterly Review	None	None
Low	2 Business Days	Semi-Annual Review	None	None

MAINTENANCE AND SUPPORT POLICY: The Maintenance and Support policy is as follows:

AppDynamics provides Maintenance and Support for each version of the Software for a period of 12 months after

the generally available release of the next major version of the Software (a major release is a change in the first number to the right of the decimal point). For example, if version 4.1 is released on January 1, 2015, then AppDynamics will provide Maintenance and Support for version 4.0 until January 1, 2016. AppDynamics does not provide Maintenance or Support for any customized software (or components thereof).

For third party software or technology used by End User with the Software but not included with the Software (a Platform, such as Java Virtual Machines), AppDynamics will follow the end-of-life (EOL) support timeline announced by the third party
vendor of such Platform. AppDynamics will stop providing Maintenance and Support for an EOLd Platform version when the Platform vendor stops providing maintenance and support for that Platform version.

EXHIBIT B
AVAILABILITY

The terms set forth in this Exhibit B apply only if End User has purchased access to the online software-as-a-service (SaaS) version of the Software, as indicated on the Order Form.

AVAILABILITY.

AppDynamics will provide Availability (as defined below) of 99.5% (the Availability SLA), excluding situations identified as Exclusions below. For purposes of the Availability SLA, the AppDynamics network extends to, includes and terminates at the data center located router that provides the outside interface of each of AppDynamics WAN connections to its backbone providers (the AppDynamics Network). A report on the actual Availability is located at https://status.appdynamics.com. The Controller is the central repository and analytics engine where all performance data
is stored, baselined, and analyzed.

Exclusions means any outage that results from any of the following:
a. Any Maintenance performed by AppDynamics during AppDynamics standard Maintenance windows. AppDynamics will notify End User within 48 hours of any standard Maintenance and within 24 hours for other non-standard emergency Maintenance (collectively referred to herein as Scheduled Maintenance).

b. End Users information content or application programming, or the acts or omissions of End User or its agents, including, without limitation, the following:
1. End Users use of any programs not supplied by AppDynamics;
2. End Users failure to provide AppDynamics with reasonable prior written notice of any significant deployments of new nodes or change in configurations resulting in greater than 30% change in a one week period or greater than 50% change in a month in the number of key objects collected; or
3. End Users failure to upgrade AppDynamics application server and machine
software agents (the Agents) to a supported version (i.e. that has not been end of lifed by AppDynamics)
c. Failures of the Internet backbone itself and the network by which End User connects to the Internet backbone or any other network unavailability outside of the AppDynamics Network, such as misconfigurations, proxies or firewalls.
d. Any problems resulting from End User combining or merging the Software with any hardware or software not supplied by AppDynamics or not identified by AppDynamics in the Documentation as being compatible with the Software.

e.End Users or any third partys use of the Software in an unauthorized or unlawful manner.

Remedies for Excessive Downtime:

If Availability falls below the Availability SLA in a given calendar quarter, AppDynamics will pay End User a service credit (Service Credit) as follows, corresponding to the actual Availability during the applicable calendar quarter (on pro-rated basis): if the Availability is 99.5% or greater, End User is entitled to receive no credits; if the Availability is 97.0% - 99.49%, then End User is entitled to receive Service Credits equal to five percent of the fees for the applicable calendar quarter; if the Availability is 95.0% - 96.9%, then End User is entitled to receive Service Credits equal to ten percent of the fees for the applicable calendar quarter; and if the Availability is less than 95.0%, then End User is entitled to receive Service Credits equal to twenty percent of the fees for the applicable calendar quarter. receive Service Credits, End User must submit a written request to AppDynamics (to legal@appdynamics.com) within 15 days after the end of the quarter in which failure to meet Availability occurred, or End Users right to receive the relevant Service Credits will be waived. Such Service Credit will be issued as a credit against any fees owed by End User for the calendar quarter of the License Term after the request for a Service Credit, or, if End User does not owe any additional fees, then AppDynamics will pay End User the amount of the applicable Service Credit within 30 days after the end of the calendar month in which End User has requested the Service Credit. The remedies stated in this section are End Users sole and exclusive remedies and AppDynamics sole and exclusive obligations for service interruption or unavailability.

Availability is measured by the following formula: (n - y) *100 / n

(1) n is the total number of minutes in the given calendar quarter minus the Exclusions (as defined above); and y is the total number of minutes in the given calendar quarter that the Controller is not accessible by End User (as determined by AppDynamics tools).

(2) Specifically excluded from n and y in this calculation are the Exclusions.

EXHIBIT C
DATA PROTECTION

This Exhibit shall apply to the processing of any personal data (each as defined below) by AppDynamics in the course of providing the SaaS (as defined below) version of the Software and/or support to the End User.
Data Protection

The terms of this Exhibit apply only if: (i) End User is subject to Data Protection Law (as defined below); and (ii) End User has purchased access to the online software-as-a-service (SaaS) version of the Software, as indicated on the Order Form,

1. DEFINITIONS.

In this Exhibit, the following terms shall have the following meanings:

"controller", "processor", "data subject", "personal data" and "processing" (and "process") shall have the meanings given in the Data Protection Law;

"Data Protection Law" shall mean Regulation 2016/679 of the European Parliament and of the Council on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation); and

Standard Contractual Clauses shall mean the terms at https://trust.appdynamics.com/privacy/dataprotectionclauses which form part of this Exhibit pursuant the European Commission
Decision C(2010)593 of 5 February 2010.

2. RELATIONSHIP OF THE PARTIES.

End User (the controller) appoints AppDynamics as a processor to process the personal data described in Annex A (the "Data"). Each party shall comply with the obligations that apply to it under Data Protection Law.

3. PURPOSE LIMITATION.

AppDynamics shall process the Data as a processor as necessary to perform its obligations under this Agreement and strictly in accordance with the documented instructions of the End User (the "Permitted Purpose"), except where otherwise required by any law. Taking into account the nature of the processing and the Software, AppDynamics shall promptly, after becoming aware, inform End User if in AppDynamics opinion an instruction from or on behalf of End User infringes Data Protection Law.

4. INTERNATIONAL TRANSFERS.

Where End Users Controller is hosted on AppDynamics EU based SaaS platform, AppDynamics shall not transfer the Data (nor permit the Data to be transferred)
outside of the European Economic Area ("EEA") unless (i) it has first obtained the End User's prior written consent; and (ii) it takes measures to ensure the transfer is in compliance with Data Protection Law; and (iii) for the purposes of providing Support. The Standard Contractual Clauses will apply only to personal data that is transferred outside the EEA, either directly or via onward transfer, to any country not recognised by the European Commission as providing an adequate level of protection for personal data (as described in the Data Protection Laws). The Standard Contractual Clauses will not apply if AppDynamics has adopted an alternative recognised compliance standard for the lawful transfer of personal data (as defined in the Data Protection Laws) outside the EEA.

5. CONFIDENTIALITY OF PROCESSING.

AppDynamics shall ensure that any person that it authorises to process the Data (including AppDynamics' staff, agents and subcontractors) (an "Authorised Person") shall be
subject to a duty of confidentiality (whether a contractual duty or a statutory duty).

6. SECURITY.

The processor shall implement appropriate controls, including technical, organisational, and other measures, designed to protect the Data (i) from accidental or unlawful destruction, and (ii) loss, alteration, unauthorised disclosure of, or access to the Data (a "Security Incident").

7. SUBCONTRACTING.

AppDynamics shall not subcontract any processing of the Data to a third-party subcontractor without the prior written consent of the End User. Notwithstanding this, the End User consents to AppDynamics engaging third-party subcontractors to process the Data provided that: (i) AppDynamics provides at least 7 days' notice prior to the addition or removal of any subcontractor (including details of the processing it performs or will perform and the location of the subcontractor), which may be given by posting details of such addition or removal at the following URL: https://trust.appdynamics.com/privacy/subprocessors;
(ii) AppDynamics imposes data protection terms on any subcontractor it appoints that protect the Data to the same standard provided for by this paragraph; and (iii) AppDynamics remains fully liable for any breach of this paragraph that is caused by its subcontractor. A list of approved subcontractors and subcontractor locations as at the date of this Agreement is at https://trust.appdynamics.com/privacy/subprocessors. If the End User refuses to consent to AppDynamics' appointment of a third-party subcontractor on reasonable grounds relating to the protection of the Data, then End User may terminate this Agreement by giving no less than 30 days written notice.

8. DATA SUBJECTS' RIGHTS.

AppDynamics shall provide reasonable assistance to the End User (at the End User's expense) to enable the End User to respond to any request from a data subject to exercise any of its rights under Data Protection Law (including its rights of access, correction, objection,
erasure and data portability, as applicable).

9. DATA PROTECTION IMPACT ASSESSMENT.

If the End User reasonably believes that AppDynamics' processing of the Data will result in a high risk to the data protection rights and freedoms of data subjects, it shall promptly inform AppDynamics and AppDynamics shall, if requested by the End User, provide the End User with reasonable information to enable the End User to conduct a data protection impact assessment (taking into account the nature of the processing and the information available to AppDynamics).

10. SECURITY INCIDENTS.

Upon becoming aware of a confirmed Security Incident, AppDynamics shall inform the End User without undue delay and shall provide all such timely information and cooperation as the End User may reasonably require in order for the End User to fulfil its data breach reporting obligations under (and in accordance with the timescales required by) Data Protection Law. AppDynamics shall further take such measures
and actions as it considers necessary to remedy or mitigate the effects of the Security Incident and shall keep the End User informed in connection with the Security Incident.

11. DELETION OF DATA.

AppDynamics will effectively destroy all relevant Data along with any medium or document containing said Data within 14 days from receiving a written request from End User. Upon termination or expiry of this Agreement, AppDynamics will effectively destroy all Data within the time periods stated in the Licence Entitlements and Restrictions for the relevant version of the Software as set out at https://docs.appdynamics.com/display/PAA/Product+Announcements+and+Alerts+Home. AppDynamics shall send the End User written confirmation thereof on written request.

12. RETURN OF DATA.

AppDynamics provides End User with access to its Data in industry standard formats including CSV, XML, and JSON via REST API. End User may use the AppDynamics APIs to export its Data from the Software at any time. For
more information, please see https://docs.appdynamics.com.

13. END USER AUDIT.

AppDynamics engages a qualified and independent third-party auditor to conduct semi-annual SOC 2 Type II audits in order to evaluate the adequacy of AppDynamics information security program. Each such audit results in the generation of an audit report (Report), which shall be AppDynamics Confidential Information. During the Licence Term, AppDynamics shall: (i) maintain SOC 2 Type II certification (or other industry-recognized successor certification); (ii) at End Users written request, not more than once per calendar year, provide End User with the then-current Report; and (iii) at End Users expense, promptly (taking into account the nature of the request and to the extent reasonably feasible from a technical perspective) comply with any request of End User for information (including any books and/or records) relating to the Software and/or Services as necessary for End User to enable it to comply with Data
Protection Law or any request from a regulator. End User agrees that any audit and inspection rights it may have under Data Protection Law shall be satisfied by the obligations in this paragraph 13.

14. FURTHER SECURITY INFORMATION.

At End Users expense, AppDynamics shall further provide detailed written responses (on a confidential basis) to all reasonable requests for information made by End User, including responses to information security and audit questionnaires, that are necessary to confirm AppDynamics compliance with this Agreement.

15. REGULATOR AUDITS.

If a regulator wishes to carry out any audit or inspection of AppDynamics or its activities under this Agreement, End User shall provide AppDynamics at least 30 days advance notice of any audit, except where the regulator has given less notice to End User or AppDynamics. AppDynamics shall provide access for any audit or investigation by regulator(s) or law enforcement agent(s) as they require.

ANNEX A TO EXHIBIT C

SUBJECT
MATTER OF PROCESSING

The extraction, collection, storage and analysis of Data generated by, and through, the use of End Users software applications.

Further information about what processing of Data each Software product can be used for can be found at www.appdynamics.com/product and in the Documentation.

DURATION OF PROCESSING

For the Licence Term of the SaaS Software licence.

NATURE AND PURPOSE OF PROCESSING

The Data will be processed by AppDynamics SaaS Software platform in order to improve the efficiency and functioning of monitored website(s), software and/or server(s) of End User.

The Software enables the End User to:
a. Measure and track response time, load, error rate, slow rate, and stalls for application transactions.
b. Auto-discover and map application tiers and services, and see the relationships between them.
c. Learn "normal" performance behavior and "normal" code execution paths for application transactions and application services over time so that anomalies
can be detected automatically.
d. Follow the flow of application transactions across tiers and services (even in a highly distributed environment) to allow the identification of bottlenecks.
e. Identify the root cause of errors in applications.
f. View reports and obtain visibility into application performance for understanding the service levels of such applications.
g. View operational dashboards to help information technology teams understand the health and performance of application environments.
h. View agile release comparisons so that developers understand the business impact of application releases, for the purpose of identifying regression and learning from production deployments.

In the course of monitoring End Users website(s), software and/or server(s), AppDynamics will necessarily ingest and process the Data described above in this Annex A for the purpose of providing the Software and its functions.

TYPE OF PERSONAL DATA AND CATEGORIES OF PERSONAL DATA

Depending
on the End Users configuration of the Software the following types and categories of personal data that might be collected are:

Personal details
Included in this category are classes of data which identify the data subject and their personal characteristics. Examples are names, addresses, job title, employer, contact details, age, sex, date of birth, physical descriptions, identifiers issued by public bodies, e.g. NI number.

Family, lifestyle and social circumstances
Included in this category are any matters relating to the family of the data subject and the data subjects lifestyle and social circumstances. Examples are details about current marriage and partnerships and marital history, details of family and other household members, habits, housing, travel details, leisure activities, membership of charitable or voluntary organisations.

Education and training details
Included in this category are any matters which relate to the education and any professional training of the data subject. Examples are academic records, qualifications, skills, training records, professional expertise, student and pupil records.

Employment details
Included in this category are any matters relating to the employment of the data subject. Examples are employment

and career history, recruitment and termination details, attendance record, health and safety records, performance appraisals, training records, security records.

Financial details
Included in this category are any matters relating to the financial affairs of the data subject. Examples are income, salary, assets and investments, payments, creditworthiness, loans, benefits, grants, insurance details, pension information.

Goods or services provided
Included in this category are classes of data relating to goods and services which have been provided. Examples are details of the goods or services supplied, licences issued, agreements and contracts.

IT information
Included in this category is any information relating to an
individuals use of technology or software including IP addresses, any information about the computing or mobile device a person is using, location data gathered from such devices, usernames and passwords, social media handles.

CATEGORIES OF DATA SUBJECTS

Customers and/or employees of End User depending on whether End User uses the Software to monitor customer and/or employee facing software applications.

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Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

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"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial
revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

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those notices that do not
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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 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
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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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jar/org/objectweb/asm/MethodTooLargeException.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/MethodVisitor.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/MethodWriter.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/ModuleVisitor.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/ModuleWriter.java//
ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Opcodes.java//
ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/RecordComponentVisitor.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/RecordComponentWriter.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Symbol.java//
ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/SymbolTable.java// ASM: a very small and fast Java bytecode manipulation
framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/Type.java//
ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/TypePath.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/TypeReference.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/package.html<!DOCTYPE html>
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/signature/SignatureReader.java// ASM: a very small and fast Java bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/signature/SignatureVisitor.java// ASM: a very small and fast Java
bytecode manipulation framework
/opt/cola/permits/2823517117_1767904559.4469094/0/asm-8-0-1-sources-15-jar/org/objectweb/asm/signature/SignatureWriter.java// ASM: a very small and fast Java bytecode manipulation framework
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// ASM: a very small and fast Java bytecode manipulation framework

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* /asm-8-0-1-sources-15-jar/org/objectweb/asm/AnnotationVisitor.java

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15.598,-1.828],[-2.335,-37.01],[10.417,-17.819],[12.652,-18.184],[11.667,-7.767],[-0.326,-7.218],[-0.083,-23.029],[-2.854,-27.689],[-6.951,-4.934],[15.624,14.988]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[403.164,458.984],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 1","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[-0.129,-0.548],[0,0],[-0.927,-13.159],[0,0],[-1,-5.209],[0,0],[-1.012,-11.789],[0,0],[-0.122,-0.457],[0,0],[0.739,14.348],[0.111,1.554],[1.809,0],[0.033,0.457],[-1.253,0.183]],"o":[[-10.875,-0.274],[0,0],[10.877,-1.005],[0,0],[-6.106,-0.639],[0,0],[0,0],[0.684,8.407],[0,0],[0.473,-3.564],[-0.739,-14.348],[-0.833,-0.274],[-0.017,-7.951],[13.564,1.188],[-0.526,7.951]],"v":[[12.546,-24.994],[0.514,-24.994],[0.888,3.426],[11.758,2.329],[12.756,12.656],[1.797,12.474],[2.692,25.176],[13.244,24.719],[14.385,35.776],[-8.09,36.508],[-8.03,5.254],[-9.891,-24.994],[-14.252,-25.268],[-14.385,-36.143],[12.097,-36.509]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[369.467,459.852],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 2","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[0.808,-0.091],[0.148,2.102],[3.256,0],[-0.212,-3.017],[-4.433,0],[0.103,1.462],[0,0],[7.871,0],[0.624,8.864],[-3.266,8.863],[-5.156,0],[0.654,-8.682]],"o":[[0.026,-2.192],[-0.141,-2.01],[-4.615,0],[0.226,3.197],[2.894,0],[0,0],[-0.705,6.671],[-13.842,0],[-0.683,-9.686],[1.673,-4.478],[11.129,0],[-0.873,0.457]],"v":[[3.733,-8.5],[3.637,-14.987],[-1.044,-28.786],[-4.522,0.184],[3.122,29.06],[5.226,13.982],[16.074,20.286],[3.262,37.467],[-15.391,0],[-11.002,-28.878],[-0.933,-37.467],[14.073,-10.691]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[337.028,458.801],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 3","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[0.44,-2.741],[6.572,-0.457],[0.277,2.65],[-1.604,0.366],[1.619,13.983],[0,0],[1.615,-0.183],[0.321,3.29],[-6.566,0.548],[0.381,-3.564],[1.435,-0.182],[-1.297,-10.693],[-0.897,-6.305],[-2.145,0.365]],"o":[[-6.714,-0.274],[0.117,-2.193],[1.544,0.091],[-0.534,-13.981],[0,0],[-1.344,0.183],[0.039,-3.29],[6.5,-0.183],[-0.46,3.747],[-1.539,0],[0.12,10.692],[0.715,6.304],[1.809,0],[0.232,3.289]],"v":[[12.249,35.776],[-7.513,36.508],[-7.633,27.095],[-3.322,26.639],[-6.02,-15.491],[-7.168,-25.358],[-12.331,-24.171],[-12.689,-35.685],[7.518,-36.508],[6.643,-25.815],[2.241,-25.358],[4.134,6.626],[7.049,26.182],[12.393,26.273]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[308.892,459.669],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 4","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[0.95,-23.76],[3.374,-0.914],[4.647,19.74],[0,0],[-0.698,1.645],[-3.664,0.639],[-3.44,-15.444],[0,0],[0.845,4.296],[-3.393,0.639]],"o":[[-3.411,0.366],[-3.082,-21.933],[0,0],[0.143,-1.828],[2.636,0.183],[0.412,5.848],[0,0],[0.189,-5.026],[3.464,0.366],[-1.964,23.486]],"v":[[10.507,34.679],[-0.156,36.142],[-11.506,-26.091],[-15.74,-25.816],[-14.457,-35.868],[-2.896,-36.143],[4.62,10.189],[5.073,10.189],[5.789,-36.143],[15.741,-36.143]],"c":true}},"nm":"Path

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Graphic -
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3.564],[1.435,-0.183],[-1.297,-10.692],[-0.897,-6.305],[-2.146,0.366]],"o":[[-6.714,-0.274],[0.117,-
2.193],[1.544,0.091],[-0.533,-13.982],[0,0],[-1.345,0.182],[0.039,-3.289],[6.501,-0.183],[-0.46,3.747],[-
1.539,0],[0.12,10.692],[0.715,6.305],[1.809,0],[0.231,3.29]],"v":[[12.25,35.777],[-7.513,36.508],[-7.633,27.096],[-
3.322,26.639],[-6.02,-15.49],[-7.167,-25.358],[-12.329,-24.171],[-12.689,-35.685],[7.518,-36.508],[6.643,-
25.816],[2.242,-25.358],[4.134,6.626],[7.049,26.181],[12.395,26.273]],"c":true}},"nm":"Path
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3.564],[0,0]],"o":[[-0.194,4.934],[0.358,15.352],[0,0],[0.831,-13.891],[-0.127,-6.946],[-
2.521,0.183],[0,0],[8.433,0.274],[0.341,3.564],[0,0],[-2.889,0.091]],"v":[[4.832,-26.182],[4.603,-
11.469],[8.945,34.771],[-3.203,36.965],[-3.556,-5.255],[-4.569,-26.091],[-12.195,-25.177],[-13.628,-
36.509],[12.849,-36.965],[13.602,-26.272],[13.628,-25.908]],"c":true}},"nm":"Path
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Graphic -

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0.286],[0,0],[0.464,8.984],[0.069,0.973],[1.134,0],[0.02,0.286],[-0.786,0.114]],"o":[[-6.811,-0.171],[0,0],[6.812,-
0.629],[0,0],[-3.823,-0.4],[0,0],[0,0],[0.427,5.265],[0,0],[0.296,-2.232],[-0.463,-8.985],[-0.521,-0.171],[-0.01,-
4.979],[8.494,0.744],[-0.329,4.979]],"v":[[7.856,-15.652],[0.322,-
15.652],[0.555,2.146],[7.363,1.46],[7.988,7.926],[1.125,7.811],[1.685,15.766],[8.294,15.479],[9.008,22.404],[-
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0.687]],"o":[[-3.735,0.057],[-0.33,-9.5],[-0.263,-3.72],[-0.794,0],[0.126,-1.43],[3.286,0],[-
0.969,3.948],[0.302,4.292],[2.761,-0.229],[-0.122,1.488],[0.085,1.202],[-0.737,0]],"v":[[6.468,22.947],[-
4.681,23.119],[-5.872,-5.036],[-7.051,-16.138],[-9.693,-15.852],[-8.854,-22.433],[-0.687,-23.119],[-
0.103,3.662],[0.973,16.538],[9.104,15.336],[9.054,19.456],[9.693,22.89]],"c":true}},"nm":"Path
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2.747]],"v":[[-0.31,-15.823],[-0.876,-15.823],[-0.701,-7.697],[0.129,2.489],[0.527,2.489],[3.918,-
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0.286],[0.128,4.235],[0.948,8.641],[0.898,-0.114],[-0.118,2.346],[-2.962,-0.228],[-1.409,-2.289],[-0.168,-
3.205]],"o":[[3.399,0.802],[0.128,4.235],[-2.444,-0.114],[-0.015,-4.235],[-0.33,-8.698],[-0.96,0.057],[0.057,-
2.403],[3.71,-0.401],[2.618,0.172],[1.669,2.804],[0.161,5.493]],"v":[[3.315,4.263],[9.815,12.103],[2.622,22.575],[-
4.663,22.919],[-4.872,10.272],[-7.152,-15.651],[-9.97,-15.422],[-9.676,-22.518],[1.081,-22.633],[7.292,-
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Graphic -
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2.575],[0,0]],"o":[[0,0],[-0.138,2.06],[-0.198,2.804],[0,0],[-0.917,-4.979]],"v":[[-1.087,-6.524],[-1.258,-6.524],[-1.62,1.202],[-2.605,8.927],[1.385,8.47]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ind":1,"ty":"sh","ks":{"k":{"i":[[2.238,-0.401],[0.954,3.091],[0,0],[0,0],[2.137,-0.229],[-0.724,13.848],[0,0],[0.494,2.175],[-3.327,1.03],[-0.214,-2.231],[0,0],[-1.219,-6.867],[-2.046,-6.524]],"o":[[-0.222,-3.147],[0,0],[0,0],[-2.214,-0.057],[2.278,-13.505],[0,0],[-0.036,-2.118],[3.456,0],[-0.008,2.289],[0,0],[0.989,6.809],[1.278,6.867],[-2.271,-0.058]],"v":[[3.21,23.92],[2.031,14.42],[-2.894,14.478],[-3.527,23.176],[-10.059,23.748],[-5.738,-16.252],[-7.605,-16.195],[-8.068,-22.776],[3.975,-23.92],[4.055,-17.168],[2.085,-16.996],[5.234,3.605],[10.059,23.806]],"c":true}},"nm":"Path 2","mn":"ADBE Vector Shape - Group"},{"ty":"mm","mm":1,"nm":"Merge Paths 1","mn":"ADBE Vector Filter - Merge"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[335.321,278.914],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 20","np":4,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[-0.487,-6.924],[-0.778,-7.84],[1.793,-0.286],[3.167,6.352],[0,0],[-1.124,-5.494],[2.181,-0.401],[0.483,6.867],[0.796,6.467],[0,0],[-0.369,2.003],[-2.416,0.286],[-1.145,-0.973],[1.046,7.611],[-1.905,0.286]],"o":[[0.557,7.897],[-1.809,0.057],[-1.608,-6.753],[0,0],[0.334,5.551],[-2.218,-0.114],[-0.254,-6.81],[-0.456,-6.466],[0,0],[0.086,-2.003],[2.493,0],[0.46,1.716],[-0.597,-7.668],[1.93,0.057],[0.145,6.867]],"v":[[8.94,-1.431],[11.228,22.203],[5.765,22.661],[-0.854,1.888],[-0.616,6.065],[1.355,22.775],[-5.306,23.119],[-6.353,2.632],[-8.46,-16.825],[-11.229,-16.71],[-10.753,-22.833],[-3.352,-23.119],[4.419,1.144],[2.394,-21.975],[8.216,-22.147]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[311.676,279.143],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 21","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[-0.08,-0.343],[0,0],[-0.581,-8.24],[0,0],[-0.626,-3.262],[0,0],[-0.634,-7.382],[0,0],[-0.077,-0.286],[0,0],[0.464,8.984],[0.069,0.973],[1.133,0],[0.02,0.286],[-0.785,0.114]],"o":[[-6.811,-0.171],[0,0],[6.811,-0.629],[0,0],[-3.824,-0.4],[0,0],[0,0],[0.428,5.265],[0,0],[0.297,-2.232],[-0.463,-8.985],[-0.522,-0.171],[-0.011,-4.979],[8.494,0.744],[-0.328,4.979]],"v":[[7.857,-15.652],[0.322,-15.652],[0.556,2.146],[7.363,1.46],[7.989,7.926],[1.126,7.811],[1.686,15.766],[8.294,15.479],[9.009,22.404],[-5.066,22.861],[-5.029,3.29],[-6.193,-15.652],[-8.924,-15.823],[-9.008,-22.633],[7.576,-22.862]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.11,0.12,0.3,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[290.778,279.686],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 22","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[-0.081,-0.343],[0,0],[-0.58,-8.24],[0,0],[-0.627,-3.262],[0,0],[-0.634,-7.382],[0,0],[-0.077,-0.286],[0,0],[0.464,8.984],[0.069,0.973],[1.133,0],[0.02,0.286],[-0.786,0.114]],"o":[[-6.811,-0.171],[0,0],[6.811,-0.629],[0,0],[-3.824,-0.4],[0,0],[0,0],[0.428,5.265],[0,0],[0.296,-2.232],[-0.463,-8.985],[-0.522,-0.171],[-0.011,-4.979],[8.494,0.744],[-0.329,4.979]],"v":[[7.857,-15.652],[0.322,-15.652],[0.555,2.146],[7.362,1.46],[7.988,7.926],[1.125,7.811],[1.685,15.766],[8.293,15.479],[9.008,22.404],[-5.066,22.861],[-5.03,3.29],[-6.193,-15.652],[-8.924,-15.823],[-9.008,-22.633],[7.576,-22.862]],"c":true}},"nm":"Path

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Graphic -
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Graphic -
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o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 38","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[0,0],[3.334,-24],[0,0],[-6.953,15.333],[-1.472,18.135],[13.333,-10.667]],"o":[[0,0],[-3.333,24],[0,0],[6.952,-15.333],[1.472,-18.135],[-13.333,10.667]],"v":[[-13.024,-49],[-36.191,18.334],[-42.191,103],[8.857,21.667],[40.719,-76.333],[20.476,-92.333]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[1,1,1,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[250.524,535.333],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 39","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[16.47,0],[0,0],[0,16.47],[0,0],[-16.47,0],[0,0],[0,-16.471],[0,0]],"o":[[0,0],[-16.47,0],[0,0],[0,-16.471],[0,0],[16.47,0],[0,0],[0,16.47]],"v":[[58.385,121.138],[-58.386,121.138],[-88.331,91.19],[-88.331,-91.19],[-58.386,-121.137],[58.385,-121.137],[88.331,-91.19],[88.331,91.19]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.26,0.22,0.22,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[299.095,523],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 40","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[3.333,13.333],[10,0.666],[11.336,0.581],[8.667,-2.666],[0,0],[0,-2.666],[31.177,-10.727],[4,-4],[-1.333,-8],[-1.333,-4],[-6.666,-1.333],[-8,-0.667],[-6.945,0.469],[-15.008,0.608],[0,5.581],[-21.355,0],[0,-24.854],[1.061,-4.109],[-68.994,2.646],[0,3.876],[-21.355,0],[0,-24.853],[0.433,-2.698],[-2.182,0.167],[-2.666,11.333],[-3.333,20]],"o":[[-3.333,-13.333],[-10,-0.667],[-7.591,-0.389],[-8.666,2.667],[-0.666,37.245],[0,2.667],[-17.667,6.078],[-4,4],[1.334,8],[1.333,4],[6.667,1.333],[8,0.666],[1.962,-0.133],[-1.596,-4.931],[0,-24.854],[21.355,0],[0,4.511],[61.526,-2.383],[-0.791,-3.588],[0,-24.853],[21.355,0],[0,2.844],[42.856,-1.659],[8.666,-0.667],[2.667,-11.334],[3.333,-20]],"v":[[313.333,-264.805],[291.333,-276.138],[-31.334,-284.805],[-67.334,-279.472],[-219.834,-254.972],[-221.667,35.194],[-305.333,59.195],[-352.667,92.529],[-359.333,107.195],[-328.667,249.862],[-313.333,255.862],[-155.334,284.529],[-142,284.529],[-115.525,283.38],[-117.999,267.529],[-79.334,222.529],[-40.667,267.529],[-42.306,280.502],[168.212,272.419],[167,261.195],[205.667,216.195],[244.333,261.195],[243.662,269.516],[318,266.529],[332.667,246.529],[357.333,110.529]],"c":true}},"nm":"Path 2","mn":"ADBE Vector Shape - Group"},{"ty":"mm","mm":1,"nm":"Merge Paths 1","mn":"ADBE Vector Filter - Merge"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.9,0.89,0.87,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[6.6,0],[0,0],[0,6.6],[0,0],[0,0],[0,-52.01],[0,0]],"o":[[0,0],[-6.6,0],[0,0],[0,-6.6],[19,-3.249],[0,0],[0,6.601]],"v":[[-310.693,-380.326],[-487.97,-380.326],[-517.307,-393.042],[-513.47,-721.264],[-340.693,-752.674],[-313.693,-705.664],[-298.693,-392.326]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.59,0.58,0.55,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[295.693,473.174],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 41","np":2,"mn":"ADBE Vector Group"},{"ty":"tr","p":{"k":[413,566.727],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 46","np":4,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[-44.415,-6.965],[-

0.088,-28.498],[13.461,15.116],[0,18.756]],"o":[[0,15.221],[-13.207,19.55],[0.051,-18.153],[47.316,-6.965]],"v":[[73.475,-22.118],[73.562,9.533],[-73.562,11.187],[-73.511,-22.118]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.73,0.71,0.67,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[572.316,286.68],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 47","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[0,-40.589],[-0.088,-28.498],[13.461,15.116],[0,18.756],[-40.59,0]],"o":[[0,15.221],[-13.207,19.55],[0.051,-18.153],[0,-40.589],[40.589,0]],"v":[[73.475,-1.354],[73.562,55.297],[-73.562,56.952],[-73.511,-1.354],[-0.018,-74.848]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.9,0.89,0.87,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[572.316,240.916],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 48","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[0,-6.261],[6.261,0],[0,6.261],[-6.262,0]],"o":[[0,6.261],[-6.262,0],[0,-6.261],[6.261,0]],"v":[[11.337,0],[0,11.336],[-11.336,0],[0,-11.336]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.9,0.89,0.87,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[311.442,135.794],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 49","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[8.404,0.752],[-1.281,9.693],[-4.326,-1.336],[0,0],[0,0]],"o":[[-4.171,-0.373],[1.3,-9.831],[8.589,2.652],[0,0],[0,0]],"v":[[-37.154,10.443],[-49.099,-4.23],[-32.257,-15.108],[50.381,10.406],[49.224,16.445]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.73,0.71,0.67,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[355.121,158.705],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":-168.392,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 50","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[11.583,-42.349],[37.012,10.123],[-11.583,42.349],[-37.013,-10.123]],"o":[[-11.583,42.349],[-37.013,-10.123],[11.583,-42.349],[37.013,10.124]],"v":[[67.018,18.33],[-20.973,76.68],[-67.017,-18.33],[20.973,-76.68]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.9,0.89,0.87,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[390,167.036],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 51","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[0,0],[0,-2.264],[0,0],[0,0],[0,0],[2.583,-0.669]],"o":[[-13.479,0.667],[0,0],[0,0],[0,0],[0,0],[-2.581,0.67]],"v":[[7.146,-73.667],[-14.333,-65.931],[-14.333,-63.667],[-48.333,73.667],[48.333,67.001],[15.958,-70.879]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.73,0.71,0.67,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[396,232],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 52","np":2,"mn":"ADBE Vector Group"},{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":{"i":[[-6.6,0],[0,0],[0,4.894],[0,0],[6.599,0],[0,0],[0,-4.895],[0,0]],"o":[[0,0],[6.599,0],[0,0],[0,-4.895],[0,0],[-6.6,0],[0,0],[0,4.894]],"v":[[-

9.441,34.655],[9.442,31.688],[21.441,22.789],[21.441,-22.789],[9.442,-31.689],[-9.441,-34.655],[-21.441,-25.755],[-21.441,25.756]],"c":true}},"nm":"Path 1","mn":"ADBE Vector Shape - Group"},{"ty":"fl","fillEnabled":true,"c":{"k":[0.52,0.49,0.46,1]},"o":{"k":100},"nm":"Fill 1","mn":"ADBE Vector Graphic - Fill"},{"ty":"tr","p":{"k":[111.867,616.066],"ix":2},"a":{"k":[0,0],"ix":1},"s":{"k":[100,100],"ix":3},"r":{"k":0,"ix":6},"o":{"k":100,"ix":7},"sk":{"k":0,"ix":4},"sa":{"k":0,"ix":5},"nm":"Transform"}],"nm":"Group 58","np":2,"mn":"ADBE Vector Group"}],"ip":0,"op":300,"st":0,"bm":0,"sr":1},{"ddd":0,"ind":9,"ty":4,"nm":"wire 2","parent":8,"ks":{"o":{"k":100},"r":{"k":0},"p":{"k":[855,452,0]},"a":{"k":[0,0,0]},"s":{"k":[100,100,100]}},"ao":0,"shapes":[{"ty":"gr","it":[{"ind":0,"ty":"sh","ks":{"k":[{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":0,"s":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-24,20.5]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[25.878,-22.104]],"v":[[-166,-140],[-171.5,-163],[-155,-160.5],[-169.5,-181.5],[-150.5,-178.5],[-166.5,-198.5],[-144,-194.5],[-166,-224.5],[-122,-308.5]],"c":false}],"e":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}]},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":15,"s":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}],"e":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-23,19.5]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[23,-19.5]],"v":[[-166,-140],[-172.5,-163],[-155,-160.5],[-170.5,-177.5],[-150.5,-179.5],[-169.5,-199.5],[-139,-198.5],[-166,-224.5],[-122,-308.5]],"c":false}]},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":30,"s":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-23,19.5]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[23,-19.5]],"v":[[-166,-140],[-172.5,-163],[-155,-160.5],[-170.5,-177.5],[-150.5,-179.5],[-169.5,-199.5],[-139,-198.5],[-166,-224.5],[-122,-308.5]],"c":false}],"e":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}]},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":45,"s":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}],"e":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-24,20.5]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[25.878,-22.104]],"v":[[-166,-140],[-171.5,-163],[-155,-160.5],[-169.5,-181.5],[-150.5,-178.5],[-166.5,-198.5],[-144,-194.5],[-166,-224.5],[-122,-308.5]],"c":false}]},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":60,"s":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-24,20.5]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[25.878,-22.104]],"v":[[-166,-140],[-171.5,-163],[-155,-160.5],[-169.5,-181.5],[-150.5,-178.5],[-166.5,-198.5],[-144,-194.5],[-166,-224.5],[-122,-308.5]],"c":false}],"e":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}]},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":

75,"s":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-
22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-
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22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-
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301.055]],"c":false}]},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":
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22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-
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23,19.5]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[23,-19.5]],"v":[[-166,-140],[-172.5,-163],[-155,-160.5],[-
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22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-
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24,20.5]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[25.878,-22.104]],"v":[[-166,-140],[-171.5,-163],[-155,-160.5],[-169.5,-181.5],[-150.5,-178.5],[-166.5,-198.5],[-144,-194.5],[-166,-224.5],[-122,-308.5]],"c":false}]},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":240,"s":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-24,20.5]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[25.878,-22.104]],"v":[[-166,-140],[-171.5,-163],[-155,-160.5],[-169.5,-181.5],[-150.5,-178.5],[-166.5,-198.5],[-144,-194.5],[-166,-224.5],[-122,-308.5]],"c":false}],"e":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}]},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":255,"s":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}],"e":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-24,20.5]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[25.878,-22.104]],"v":[[-166,-140],[-171.5,-163],[-155,-160.5],[-169.5,-181.5],[-150.5,-178.5],[-166.5,-198.5],[-144,-194.5],[-166,-224.5],[-122,-308.5]],"c":false}]},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":269,"s":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-24,20.5]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[25.878,-22.104]],"v":[[-166,-140],[-171.5,-163],[-155,-160.5],[-169.5,-181.5],[-150.5,-178.5],[-166.5,-198.5],[-144,-194.5],[-166,-224.5],[-122,-308.5]],"c":false}],"e":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}]},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":284,"s":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}],"e":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-24,20.5]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[25.878,-22.104]],"v":[[-166,-140],[-171.5,-163],[-155,-160.5],[-169.5,-181.5],[-150.5,-178.5],[-166.5,-198.5],[-144,-194.5],[-166,-224.5],[-122,-308.5]],"c":false}]},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0.167},"n":"0p833_0p833_0p167_0p167","t":299,"s":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-24,20.5]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[25.878,-22.104]],"v":[[-166,-140],[-171.5,-163],[-155,-160.5],[-169.5,-181.5],[-150.5,-178.5],[-166.5,-198.5],[-144,-194.5],[-166,-224.5],[-122,-308.5]],"c":false}],"e":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}]},{"i":{"x":0.833,"y":1},"o":{"x":0.167,"y":0.167},"n":"0p833_1_0p167_0p167","t":314,"s":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-22.857,4.945]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[22.857,-4.945]],"v":[[-166,-140],[-174.702,-158.95],[-153.151,-159.105],[-172.559,-179.298],[-150.055,-183.357],[-172.013,-206.197],[-145.311,-206.508],[-167.664,-228.046],[-104.857,-301.055]],"c":false}],"e":[{"i":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[-33,24.5]],"o":[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[37.909,-28.145]],"v":[[-166,-140],[-175.5,-162],[-158,-172.5],[-190.5,-177.5],[-161.5,-195.5],[-196.5,-192.5],[-170,-214.5],[-199,-215.5],[-139,-319.5]],"c":false}]},{"i":{"x":0.833,"y":0.833},"o":{"x":0.167,"y":0},"n":"0p833_0p833_0p167_0","t":315,"s":[{"i"

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

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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:

* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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runc

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Protocol Buffers for Go with Gadgets

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

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Mesa 3-D graphics library
Version: 7.0

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cw_ztp_license_device.proto

ZtpLicenseDevice

Field	Type	Label	Description
deviceSerialNumber	[string](#string)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" /> double		double	double	float	float64	double	float	Float
<a name="float" /> float		float	float	float	float32	float	float	Float
<a name="int32" /> int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="int64" /> int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="uint32" /> uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="uint64" /> uint64	Uses variable-length encoding.	uint64	long	int/long	uint64	ulong	integer/string	Bignum or Fixnum (as required)
<a name="sint32" /> sint32	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sint64" /> sint64	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.	int64	long	int/long	int64	long	integer/string	Bignum

<a name="fixed32" /> fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2^28.	uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than 2^56.	uint64	long	int/long	uint64	ulong	integer/string	Bignum
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII text.	string	String	str/unicode	string	string	string	String (UTF-8)
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte	ByteString	string	String (ASCII-8BIT)
UNRECOGNIZED LICENSE; MD5 sum: 4319530930bc90ff04369306a3073aaa
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cw_ztp_license_device_v2.proto

ZtpLicenseDeviceV2

Field	Type	Label	Description
uuid	[string](#string)		
serialNumber	[string](#string)	repeated	
locationId	[string](#string)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" /> double		double	double	float	float64	double	float	Float
<a name="float" /> float		float	float	float	float32	float	float	Float
<a name="int32" /> int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="int64" /> int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="uint32" /> uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="uint64" /> uint64	Uses variable-length encoding.	uint64	long	int/long	uint64	ulong	integer/string	Bignum or Fixnum (as required)
<a name="sint32" /> sint32	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sint64" /> sint64	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="fixed32" /> fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2^28.	uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than 2^56.	uint64	long	int/long	uint64	ulong	integer/string	Bignum
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII text.	string	String	str/unicode	string	string	string	String (UTF-8)
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte	ByteString	string	String (ASCII-8BIT)

```
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license.proto

package cwztpsvc
```

```
import (
 fmt "fmt"
 proto "github.com/golang/protobuf/proto"
 _ "google.golang.org/genproto/googleapis/api/annotations"
 math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicense struct {
 Id                   int32    `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
 Status               string   `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
 IsLabEnabled         bool     `protobuf:"varint,3,opt,name=isLabEnabled,proto3" json:"isLabEnabled,omitempty"`
 LastUpdated
         int64    `protobuf:"varint,4,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
 XXX_NoUnkeyedLiteral struct{} `json:"-" gorm:"-"`
 XXX_unrecognized     []byte   `json:"-" gorm:"-"`
 XXX_sizecache        int32    `json:"-" gorm:"-"`
}

func (m *ZtpLicense) Reset()         { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage()    {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
 return fileDescriptor_4e24d0294ce39e81, []int{0}
}

func (m *ZtpLicense) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (m *ZtpLicense) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicense.Merge(m, src)
}
func (m *ZtpLicense) XXX_Size() int {
 return xxx_messageInfo_ZtpLicense.Size(m)
```

```
}
func (m *ZtpLicense)
 XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

func (m *ZtpLicense) GetId() int32 {
 if m != nil {
  return m.Id
 }
 return 0
}

func (m *ZtpLicense) GetStatus() string {
 if m != nil {
  return m.Status
 }
 return ""
}

func (m *ZtpLicense) GetIsLabEnabled() bool {
 if m != nil {
  return m.IsLabEnabled
 }
 return false
}

func (m *ZtpLicense) GetLastUpdated() int64 {
 if m != nil {
  return m.LastUpdated
 }
 return 0
}

func init() {
 proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

func init() {
 proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_4e24d0294ce39e81)
}

var fileDescriptor_4e24d0294ce39e81 = []byte{
 // 241 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x54, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
 0x10, 0x86, 0x49, 0xab, 0xa5, 0x46, 0x11, 0x0c, 0x22, 0x8b, 0x88, 0x84, 0x9e, 0xf6, 0xe2, 0x06,
```

0xe9, 0x3f, 0x58,
0xf1, 0x56, 0x68, 0x09, 0x8a, 0xd0, 0x4b, 0xc9, 0x17, 0x69, 0x20, 0xcd, 0x84,
0x66, 0x6a, 0x61, 0x7f, 0xbd, 0xb4, 0xdb, 0xa2, 0x1e, 0xe7, 0x9d, 0x79, 0x1f, 0x9e, 0xa1, 0xf7,
0x66, 0xbf, 0xea, 0x30, 0xaf, 0x62, 0x30, 0x2e, 0x15, 0xd7, 0xe4, 0x2d, 0x20, 0xb0, 0xb1, 0xd9,
0x77, 0x98, 0xcb, 0xb7, 0x79, 0x7c, 0xf2, 0x00, 0x3e, 0x3a, 0xa1, 0x72, 0x10, 0x2a, 0x25, 0x40,
0x85, 0x01, 0x52, 0xe9, 0xef, 0x26, 0x1d, 0xa5, 0x4b, 0xcc, 0xb3, 0xbe, 0xcb, 0x6e, 0xe9, 0x20,
0xd8, 0x8a, 0x70, 0x52, 0x5f, 0xca, 0x41, 0xb0, 0xec, 0x81, 0x8e, 0x0a, 0x2a, 0xdc, 0x95, 0x6a,
0xc0, 0x49, 0x7d, 0x25, 0x4f, 0x13, 0x9b, 0xd0, 0x9b, 0x50, 0x66, 0x4a, 0xbf, 0x27, 0xa5, 0xa3,
0xb3, 0xd5, 0x90, 0x93, 0x7a, 0x2c, 0xff, 0x65, 0x8c, 0xd3, 0xeb, 0xa8, 0x0a, 0x7e, 0x66, 0xab,
0xd0, 0xd9, 0xea, 0x82, 0x93, 0x7a, 0x28, 0xff, 0x46, 0xed, 0x9a, 0x3e, 0x1b, 0xd8, 0x34, 0x26,
0x14, 0x03, 0xcd, 0x16, 0x34, 0x60, 0x2f, 0xd5, 0x9c, 0xdd, 0xdb, 0xbb, 0xb7, 0xaf, 0x5f, 0xbb,
0xc5, 0x61, 0xb7, 0x20, 0xcb, 0x57, 0x1f, 0x70,
0xbd, 0xd3, 0xd3, 0x53, 0xd1, 0xc0, 0x46, 0xc8,
0x79, 0x3b, 0xff, 0x10, 0x47, 0xc4, 0xcb, 0xe1, 0x4f, 0x0f, 0x51, 0x25, 0x2f, 0xce, 0x1c, 0x3d,
0x3a, 0x72, 0xa7, 0x3f, 0x01, 0x00, 0x00, 0xff, 0xff, 0xf4, 0xb4, 0x37, 0x45, 0x2c, 0x01, 0x00,
0x00,
}
Protocol Documentation

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cw_ztp_license.proto

ZtpLicense

Field	Type	Label	Description
id	[int32](#int32)		
status	[string](#string)		
lastUpdated	[int64](#int64)		

Scalar Value Types

.proto Type	Notes	C++	Java	Python	Go	C#	PHP	Ruby
<a name="double" /> double		double	double	float	float64	double	float	Float
<a name="float" /> float		float	float	float	float32	float	float	Float
<a name="int32" /> int32	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint32 instead.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="int64" /> int64	Uses variable-length encoding. Inefficient for encoding negative numbers if your field is likely to have negative values, use sint64 instead.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="uint32" /> uint32	Uses variable-length encoding.	uint32	int	int/long	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="uint64" /> uint64	Uses variable-length encoding.	uint64	long	int/long	uint64	ulong	integer/string	Bignum or Fixnum (as required)
<a name="sint32" /> sint32	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int32s.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sint64" /> sint64	Uses variable-length encoding. Signed int value. These more efficiently encode negative numbers than regular int64s.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="fixed32" /> fixed32	Always four bytes. More efficient than uint32 if values are often greater than 2^28.	uint32	int	int	uint32	uint	integer	Bignum or Fixnum (as required)
<a name="fixed64" /> fixed64	Always eight bytes. More efficient than uint64 if values are often greater than 2^56.	uint64	long	int/long	uint64	ulong	integer/string	Bignum
<a name="sfixed32" /> sfixed32	Always four bytes.	int32	int	int	int32	int	integer	Bignum or Fixnum (as required)
<a name="sfixed64" /> sfixed64	Always eight bytes.	int64	long	int/long	int64	long	integer/string	Bignum
<a name="bool" /> bool		bool	boolean	boolean	bool	bool	boolean	TrueClass/FalseClass
<a name="string" /> string	A string must always contain UTF-8 encoded or 7-bit ASCII text.	string	String	str/unicode	string	string	string	String (UTF-8)
<a name="bytes" /> bytes	May contain any arbitrary sequence of bytes.	string	ByteString	str	[]byte	ByteString	string	String (ASCII-8BIT)

{
 "swagger": "2.0",

```
"info": {
  "title": "proto/cw_ztp_license_device.proto",
  "version": "version not set"
},
"consumes": [
  "application/json"
],
"produces": [
  "application/json"
],
"paths": {},
"definitions": {
  "protobufAny": {
    "type": "object",
    "properties": {
      "type_url": {
        "type": "string"
      },
      "value": {
        "type": "string",
        "format": "byte"
      }
    }
  },
  "runtimeError": {
    "type": "object",
    "properties": {
      "error": {
        "type": "string"
      },
      "code": {
        "type": "integer",
        "format": "int32"
      },
      "message": {
        "type": "string"
      },
      "details": {
        "type": "array",
        "items": {
          "$ref": "#/definitions/protobufAny"
        }
      }
    }
  }
}
}
```

```
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

package cwztpsvc

import (
 fmt "fmt"
 proto "github.com/golang/protobuf/proto"
 math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicenseDeviceV2 struct {
 Uuid                 string   `protobuf:"bytes,1,opt,name=uuid,proto3" json:"uuid,omitempty"`
 SerialNumber         []string `protobuf:"bytes,2,rep,name=serialNumber,proto3" json:"serialNumber,omitempty"`
 LocationId           string   `protobuf:"bytes,3,opt,name=locationId,proto3" json:"locationId,omitempty"`
 XXX_NoUnkeyedLiteral
 struct{} `json:"-" gorm:"-"`
 XXX_unrecognized     []byte   `json:"-" gorm:"-"`
 XXX_sizecache        int32    `json:"-" gorm:"-"`
}

func (m *ZtpLicenseDeviceV2) Reset()         { *m = ZtpLicenseDeviceV2{} }
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDeviceV2) ProtoMessage()    {}
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
 return fileDescriptor_187379be6b6c9b7c, []int{0}
}

func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDeviceV2.Merge(m, src)
}
```

```
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown()
 {
 xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

func (m *ZtpLicenseDeviceV2) GetUuid() string {
 if m != nil {
  return m.Uuid
 }
 return ""
}

func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
 if m != nil {
  return m.SerialNumber
 }
 return nil
}

func (m *ZtpLicenseDeviceV2) GetLocationId() string {
 if m != nil {
  return m.LocationId
 }
 return ""
}

func init() {
 proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

func init() {
 proto.RegisterFile("cw_ztp_license_device_v2.proto", fileDescriptor_187379be6b6c9b7c)
}

var fileDescriptor_187379be6b6c9b7c = []byte{
 // 219 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x4b, 0xc3, 0x40,
 0x10, 0x47, 0x89, 0x15, 0xb1, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
 0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdd,
 0xc9, 0x12, 0x07, 0x36, 0x99,
 0x65, 0xff, 0xa4, 0xd0, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0xbd, 0x0d, 0x3f, 0xde, 0x3c, 0x1e, 0xab,
 0xe0, 0x20, 0x8f, 0xd1, 0x49, 0x8b, 0x60, 0xc6, 0x60, 0x64, 0x67, 0x26, 0x04, 0x23, 0xa7, 0x75,
 0xed, 0x3c, 0x45, 0xe2, 0xb7, 0x70, 0x38, 0x46, 0x17, 0x26, 0x58, 0x5a, 0xc6, 0xf7, 0xd1, 0xbd,
```

0x9e, 0xb8, 0xe7, 0x8c, 0x7d, 0xac, 0x39, 0x67, 0xd7, 0x29, 0x61, 0x57, 0x16, 0x8b, 0x62, 0x35,
0x6f, 0xf3, 0xcd, 0x97, 0xec, 0x2e, 0x18, 0x8f, 0xca, 0xbe, 0xa5, 0x41, 0x1b, 0x5f, 0x5e, 0x2d,
0x66, 0xab, 0x79, 0xfb, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
0xf9, 0xfb, 0xcf, 0xd2, 0x38, 0x56, 0x01, 0x0d, 0x35, 0x60, 0x00, 0xaa, 0x3d, 0x69, 0x8a, 0xa7,
0xa0, 0xfa, 0xdc, 0xd3, 0xdc, 0x3f, 0x7d, 0x5e, 0xf6, 0xec, 0x7e, 0x98, 0x5d, 0xb1, 0x7f, 0xec,
0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb, 0x77, 0x91, 0x55, 0x0f,
0xca, 0xa1, 0xe8, 0xc9, 0xaa, 0xb1, 0x17, 0x67, 0x9f, 0xbe, 0xc9, 0xfe, 0xcd, 0x77, 0x00, 0x00,
0x00,
0xff, 0xff, 0x66, 0x8d, 0x49, 0xba, 0x12, 0x01, 0x00, 0x00,
}
UNRECOGNIZED LICENSE; MD5 sum: 592ce646d353b65bfd4198cf8cb1377d

```
{
 "swagger": "2.0",
 "info": {
  "title": "proto/cw_ztp_license_device_v2.proto",
  "version": "version not set"
 },
 "consumes": [
  "application/json"
 ],
 "produces": [
  "application/json"
 ],
 "paths": {},
 "definitions": {
  "protobufAny": {
   "type": "object",
   "properties": {
    "type_url": {
     "type": "string"
    },
    "value": {
     "type": "string",
     "format": "byte"
    }
   }
  },
  "runtimeError": {
   "type": "object",
   "properties": {
    "error": {
     "type": "string"
    },
    "code": {
     "type": "integer",
     "format": "int32"
    },
    "message": {
```

```
        "type": "string"
       },
       "details": {
        "type": "array",
        "items": {
         "$ref": "#/definitions/protobufAny"
        }
       }
      }
     }
    }
   }
  {
   "swagger": "2.0",
   "info": {
    "title": "proto/cw_ztp_license.proto",
    "version": "version not set"
   },
   "consumes": [
    "application/json"
   ],
   "produces": [
    "application/json"
   ],
   "paths": {},
   "definitions": {
    "protobufAny": {
     "type": "object",
     "properties": {
      "type_url": {
       "type": "string"
      },
      "value": {
       "type": "string",
       "format": "byte"
      }
     }
    },
    "runtimeError": {
     "type": "object",
     "properties": {
      "error": {
       "type": "string"
      },
      "code": {
       "type": "integer",
       "format": "int32"
      },
```

```
      "message": {
        "type": "string"
      },
      "details": {
        "type": "array",
        "items": {
          "$ref": "#/definitions/protobufAny"
        }
      }
    }
  }
 }
}
// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

package cwztpsvc

import (
 fmt "fmt"
 proto "github.com/golang/protobuf/proto"
 _ "google.golang.org/genproto/googleapis/api/annotations"
 math "math"
)

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion3 // please upgrade the proto package

type ZtpLicenseDevice struct {
 DeviceSerialNumber   string   `protobuf:"bytes,1,opt,name=deviceSerialNumber,proto3"
json:"deviceSerialNumber,omitempty"`
 XXX_NoUnkeyedLiteral struct{} `json:"-" gorm:"-"`
 XXX_unrecognized     []byte   `json:"-" gorm:"-"`
 XXX_sizecache        int32    `json:"-" gorm:"-"`
}

func
 (m *ZtpLicenseDevice) Reset()         { *m = ZtpLicenseDevice{} }
func (m *ZtpLicenseDevice) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDevice) ProtoMessage()    {}
```

```
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
 return fileDescriptor_4637a3ce942b5232, []int{0}
}

func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
 return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
 return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (m *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
 xxx_messageInfo_ZtpLicenseDevice.Merge(m, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
 return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
 xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice proto.InternalMessageInfo

func (m *ZtpLicenseDevice) GetDeviceSerialNumber()
 string {
 if m != nil {
  return m.DeviceSerialNumber
 }
 return ""
}

func init() {
 proto.RegisterType((*ZtpLicenseDevice)(nil), "cwztpsvc.ZtpLicenseDevice")
}

func init() {
 proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_4637a3ce942b5232)
}

var fileDescriptor_4637a3ce942b5232 = []byte{
 // 201 bytes of a gzipped FileDescriptorProto
 0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
 0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0xf2, 0xff,
 0x06, 0xd1, 0x51, 0xfc, 0x97, 0x2a, 0x08, 0x5d, 0x4a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9,
 0xb6, 0xd0, 0x4f, 0x2f, 0x6d, 0xec, 0x22, 0xce, 0xf7, 0xee, 0xf7, 0x1e, 0xbb, 0x86, 0xb9, 0x5f,
 0x28, 0xf6, 0xde, 0x81, 0x09, 0xd9, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
 0xc2, 0xbc, 0x50, 0xcc, 0x13, 0x5c, 0xdd, 0x58, 0x44, 0xeb, 0x8d, 0x50, 0xd1, 0x09, 0x15, 0x02,
 0x92, 0x22, 0x87, 0x21, 0x97, 0xdc, 0xbd, 0x64,
```

0xe7, 0x1d, 0xc5, 0xd7, 0x42, 0xbc, 0x6c, 0x42,
0xcd, 0x59, 0x5d, 0xac, 0x77, 0x93, 0x9c, 0xf2, 0x6f, 0xe3, 0xa0, 0x4d, 0xba, 0xac, 0xee, 0xaa,
0x87, 0xb3, 0xf6, 0x9f, 0x8b, 0x0c, 0xec, 0x16, 0x70, 0xe0, 0xe0, 0x32, 0x20, 0x4f, 0xa8, 0x91,
0x0a, 0xce, 0xf7, 0x0d, 0xf2, 0xe2, 0xf9, 0xf3, 0x6f, 0x4b, 0xb3, 0x26, 0x9a, 0xaa, 0x7b, 0xb2,
0x8e, 0xbe, 0x47, 0x7d, 0xf8, 0x7d, 0x07, 0x1c, 0x44, 0x7b, 0x94, 0xc7, 0x0f, 0xb1, 0x41, 0x8f,
0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xfa, 0xe1, 0x27, 0x00, 0x00, 0xff,
0xff, 0xe7, 0xa2, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}

1.844 robot-infra-utils 1.0.2-0.20260112120652-53e304ab3cfa

1.844.1 Available under license :

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Version 2.1, February 1999

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