Open Source Used In Cisco Ultra Cloud Platform 2019.09

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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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- javaee_7.xsd
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- web-common_3_1.xsd
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1.5 diffutils 3.5-3

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may be on a different server (operated by you or a third party)
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1.7 memcached 1.0.8-1ubuntu2

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1.13 glibc 2.28-10
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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1.14 ubuntu-keyring 2012.05.19

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

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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(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.

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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!

1.20 python-requests 2.18.4 2ubuntu0.1

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1.24 python-defaults 3.6.7 1~18.04
1.25 initramfs-tools 0.130ubuntu3.9

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This package was debianized by Jeff Bailey <jbailey@ubuntu.com> on Thu, 27 Jan 2005 15:23:52 -0500.

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The current ubuntu release can be found at:

The Debian tree is maintained with "git" at:
https://anonscm.debian.org/git/kernel/initramfs-tools.git
https://anonscm.debian.org/cgit/kernel/initramfs-tools.git

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1.26 dosfs-tools 4.1 1

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Ty Coon, President of Vice

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1.28 alpine-keys 2.1-r1
1.29 gorilla 1.7.1

1.29.1 Available under license:

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1.30 libjpeg 8c

1.30.1 Notifications:

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

1.30.2 Available under license:

The Independent JPEG Group's JPEG software

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

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 Mingaguillón, 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 "cjpegl" and "djpegl", 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 "jpegtan", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

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

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

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

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

We are required to state that
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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 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

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/academic/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

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

RELATED SOFTWARE

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjjpeg/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.

1.31 gcc 5.4.0 6ubuntu1~16.04.11
1.31.1 Available under license :

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Version 2.1, February 1999
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That's all there is to it!

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{
class Permission : public ::java::lang::Object
{

public:
virtual jboolean equals(::java::lang::Object *) = 0;
virtual ::java::lang::String * toString() = 0;
static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

java/security/acl/Permissionjava/lang/Objectequals(Ljava/lang/Object;)ZtoString(Ljava/lang/String);
SourceFilePermission.java

" Automatically generated by Pod::Man 2.16 (Pod::Simple 3.05)
" Standard preamble:
" ========================================================================
.de Sh " Subsection heading
.br
.if t .Sp
.ne 5
.PP
\$B\$I\$R
.PP
.. 
.de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb " Begin verbatim text
.ft CW
.nf
.ne \$I
..
.de Ve " End verbatim text
.ft R
.fi
..
" Set up some character translations and predefined strings. \*(-- will
" give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
" double quote, and \*(R" will give a right double quote. \*(C+ will
" give a nicer C++. Capital omega is used to do unbreakable dashes and
" therefore won't be available. \*(C" and \*(C' expand to `` in nroff,
" nothing in troff, for use with C<>.
.tr \"\*(W-
.ds C+ C\$v\$h-1p\$s-2+\$h-1p+\$s0\$v.1\$v\$h-1p'
.ie n /\{
   . ds -- \"\*(W-
   . ds PI pi
   . if (n.(H=4u)&(1m=24u) .ds -- \"\*(W\$h-12u\"\*(W\$h-12u\"\$diablo 10 pitch
   . if (n.(H=4u)&(1m=20u) .ds -- \"\*(W\$h-12u\"\*(W\$h-8u\"\$diablo 12 pitch
   . ds L" "
   . ds R" "
   . ds C" "

Escape single quotes in literal strings from groff's Unicode transform.

If the F register is turned on, we'll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.Sh), items (.Ip), and index entries marked with X<> in POD. Of course, you'll have to process the output yourself in some meaningful fashion.

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

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  .RS 4
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// DO NOT EDIT THIS FILE - it is machine generated -*. c++ *.-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{

```
namespace security
{
    class Permission;
    class PermissionCollection;
}
}
}

class java::security::Permission : public ::java::lang::Object
{
public:
    Permission(::java::lang::String *);
    virtual void checkGuard(::java::lang::Object *);
    virtual jobject implies(::java::security::Permission *) = 0;
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual jint hashCode() = 0;
    virtual ::java::lang::String * getName();
    virtual ::java::lang::String * getActions() = 0;
    virtual ::java::security::PermissionCollection * newPermissionCollection();
    virtual ::java::lang::String * toString();
private:
    static const jlong serialVersionUID = -563657022231596674LL;
    ::java::lang::String * __attribute__((aligned(__alignof__(::java::lang::Object)))) name;
public:
    static ::java::lang::Class class$;
};

#endif // __java_security_Permission__

1[java/security/Permissionjava/lang/Objectjava/security/Guardjava/io/SerializableserialVersionUIDJ
ConstantValue?(WQ~nameLjava/lang/String;<init>(Ljava/lang/String;)VCode
()VLineNumberTableLocalVariableTablethisLjava/security/Permission;
checkGuard(Ljava/lang/Object;)V
! java/lang/System"#getSecurityManager()Ljava/lang/SecurityManager;
%!&java/lang/SecurityManager()checkPermission(Ljava/security/Permission;VobjLjava/lang/Object;smLjava/lang/
SecurityManager;implies(Ljava/security/Permission;)Zequals(Ljava/lang/Object;)ZhashCode()IgetName()Ljava/lang/String;
getActionsnewPermissionCollection&()Ljava/security/PermissionCollection;toString;gnu/java/lang/CPStringBuilder;
:?
:"?@append"(C)Lgnu/java/lang/CPStringBuilder;
BCDgetClass(Ljava/lang/Class;
FHVjava/lang/Class45
:J?K3(Ljava/lang/String;Lgnu/java/lang/CPStringBuilder;
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*m4/ax_func_which_gethostbyname_r.m4*

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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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received the object code with such an offer, in accord with subsection
6b.

@item
Convey the object code by offering access from a designated place
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@end enumerate

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@end enumerate

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</para>
<bridgehead xml:id="SourceCode" renderas="sect1">
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</para>
<para>
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Jan 21, 2002

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

That's all there is to it!
#!/usr/bin/python
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#     update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#     update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        #
self.num_errors = 0

def report (self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write (string + '\n')
    self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set ([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'decomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltsguar.m4',
            'lversion.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
        ])}
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True
    return False
def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][\-0-9,\.,\s]+[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w,-\.\]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (self.year_re | self.continuation_re)

        # 1: 'Copyright (C)', etc.
        '\([Cc]\)opyright'
        '\[Cc\]opyrights+\[Cc\]'
        '\[Cc\]opyrights+%s'
        '\[Cc\]opyrights+&copy;'
        '\[Cc\]opyrights+@copyright{ }'
        '[c|c]opyright = u\''
        '\[@set\+]copyright[\w-]+\]'

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\(\s*\:\? \+ ranges \+ \:',?
        '\[@value\[^{}]+\]s*\)'

        # 3: 'by ', if used
        '\(by\s+\)'
# 4: the copyright holder. Don't allow multiple consecutive spaces, so that right-margin gloss doesn't get caught
(e.g. gnat_ugn.texi).
'( + name +(?:\s? + name + +))*')

# A regexp for notices that might have slipped by. Just matching 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]', re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

    def parse_year (self, string):
        year = int (string)
        if len (string) == 2:
            if year > 70:
                return year + 1900
elif len (string) == 4:
    return year
raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
             and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
orig_line = line
next_line = None
pathname = os.path.join (dir, filename)

intro = match.group (1)
if intro.startswith ('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end (2):].strip()
    if after_years != ':
        self.errors.report (pathname,
            'trailing characters in @set: '
            + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break
        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break
        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match (line, match.start())
    assert match
    holder = match.group (4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author (dir, filename):
        assert holder not in self.holders
    elif not holder:
        self.errors.report (pathname, 'missing copyright holder')
        return (False, orig_line, next_line)
    elif holder not in self.holders:
        self.errors.report (pathname,
else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'): intro += ' (C)'
    elif intro.endswith ('(c)'): intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
os.remove (pathname)
except OSError:
    pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter,
                                             file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
        line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
            if self.use_quilt:
                subprocess.call (['quilt', 'add', pathname])
            os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
def __init__ (self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []

    self.add_option ('--help', 'Print this help', self.o_help)
    self.add_option ('--quilt', '"quilt add" files before changing them',
                     self.o_quilt)
    self.add_option ('--this-year', 'Add the current year to every notice',
                     self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...
' % sys.argv[0])
    'Options:
' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s
'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)
def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
return True
return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_files |= set([
        # Not part of GCC
        'math-68881.h',
    ])

    self.skip_dirs |= set([
        # Better not create a merge nightmare for the GNAT folks.
        'ada',

        # Handled separately.
        'testsuite',
    ])

    self.skip_extensions |= set([
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    ])

    self.fossilised_files |= set([
        # Old news won't be updated.
        'ONEWS',
    ])

class TestsuiteFilter(GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_extensions |= set([
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
    ])

`.java`,
]

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (]
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ]

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (]
            # Imported from GLIBC.
            'soft-fp',
        ]

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (]
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ]

    def get_line_filter (self, dir, filename):
if filename == 'NameDecoder.h':
    return re.compile ('.*NAME_COPYRIGHT')
if filename == 'ICC_Profile.h':
    return re.compile ('.*icSigCopyrightTag')
return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])
        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',
            # The testsuite data files shouldn't be changed.
            'data',
            # Contains imported images
            'images',
        ])
        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir (',', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
self.add_dir ('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir ('gnatools')
self.add_dir ('include')
self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libc', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = ['gcc',
                    'libada',
                    'libatomic',
                    'libbacktrace',
                    'libc',
                    'libdecnumber',
                    'libgcc',
                    'libgfortran',
                    'libgomp',
                    'libiberty',
                    'libitm',
                    'libmudflap',
                    'libobjc',
                    'libstdc++-v3',
                    ]

GCCCmdLine().main()

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>. *
 * @version 0.0 *
 * @author Aaron M. Renn (arenn@urbanophile.com) */
 public interface Permission
 {
 /**
* This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
* 
* @param perm The permission to check for equality
* 
* @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
*/
boolean equals (Object perm);

/**
* This method returns this <code>Permission</code> as a <code>String</code>.
* 
* @return A <code>String</code> representing this permission.
*/
String toString();

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

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson (jep@mitiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
* <p>The most important method in this class is <code>implies</code>. This
* checks whether if one has this permission, then the specified
* permission is also implied. As a conceptual example, consider the
* permissions "Read All Files" and "Read File foo". The permission
* "Read All Files" implies that the caller has permission to read the
* file foo.
* 
* <p><code>Permission</code>'s must be immutable - do not change their
* state after creation.
* 
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/
public abstract class Permission implements Guard, Serializable
{
 /**
 * Compatible with JDK 1.1+.
 */
 private static final long serialVersionUID = -563657022231596674L;

 /**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
 private String name;

 /**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
 public Permission(String name)
 {
     this.name = name;
 }

 /**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName() {
    return name;
}
/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 *   + ')'</code>.
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    return string.toString();
}
string = string.append(')');
return string.toString();
}
} // class Permission

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Version 2.1, February 1999

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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
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this exception to your version of the library, but you are not
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exception statement from your version. */

package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */

public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {
return null;
}
}
}
}

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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__
define __gnu_javax_sound_AudioSecurityManager$Permission__

#pragma interface

#include <java/lang/Enum.h>
#include <gcj/array.h>

extern "Java"
{
namespace gnu
{
 namespace javax
{
 namespace sound
{
 class AudioSecurityManager$Permission;
 }
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum
{

 AudioSecurityManager$Permission(::java::lang::String *, jint);
 public:
 static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
 static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
 static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
 static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
 static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
 private:
 static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
 public:
 static ::java::lang::Class class$;
};

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__
/* Definitions for BSD assembler syntax for Intel 386
 (actually AT&T syntax for insns and operands,
adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* 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 DBX 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. */
```c
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)
  (fputs (".comm " , (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u
", (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
", (int)(ROUNDED)))
#if defined 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
", (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
", (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 "_
"
/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1
/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
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```
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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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
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@item
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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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version that the work was made with.

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

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

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Ty Coon, President of Vice
@end smallexample

That's all there is to it!

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

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@version 3.0 (December 2000)

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

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kdc/announce.c

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DES core in libcrypto
D3DES (V5.09) -

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Written with Symantec’s THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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lib/hcrypto/test_dh.c

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1.33 sed 4.4 1

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package cmd

func initGpl3() {
Licenses["gpl3"] = License{
    Name:            "GNU General Public License 3.0",
    PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
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func initLGPL() {
    Licenses["lgpl"] = License{
        Name:        "GNU Lesser General Public License",
PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify
`
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package cmd

func initBsdClause2() {
    Licenses['freebsd'] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
                                 "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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package cmd

import (    "strings"    "time"

    "github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.  
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of  
// the license, its possible matches (on the command line as given to cobra),  
// the header to be used with each file on the file's creating, and the text  
// of the license  
type License struct {    Name string // The type of license in use    PossibleMatches []string // Similar names to guess    Text string // License text data    Header string // License header for source files }

func init() {

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// Parts inspired by https://github.com/ryanuber/go-license
// Allows a user to not use a license.
Licenses[\"none\"] = License{\"None\", []string{\"none\", \"false\"}, \"\", \"\"}

initApache2()
initMit()
initBsdClause3()
initBsdClause2()
initGpl2()
initGpl3()
initLgpl()
initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
// If explicitly flagged, use that.
if userLicense != \"\" {
    return findLicense(userLicense)
}
// If user wants to have custom license, use that.
if viper.IsSet("license.header") || viper.IsSet("license.text") {
    return License{Header: viper.GetString("license.header"),
                   Text: viper.GetString("license.text"))
}
// If user wants to have built-in license, use that.
if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
}
// If user didn't set any license, use Apache 2.0 by default.
return Licenses[\"apache\"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == \"\" {
        year = time.Now().Format("2006")
    }
    return \"Copyright \" + year + \" \" + author
}
// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

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package cmd

func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `
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        of this software and associated documentation files (the "Software"), to deal
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        `,
    }
}
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```text
{ .copyright }

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```

```
package cmd

func initAgpl() {
Licenses["agpl"] = License{
Name: "GNU Affero General Public License",
PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"),
Header: `This program is free software: you can redistribute it and/or modify it under the terms of the GNU Affero General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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  Licenses["gpl2"] = License{
    Name: "GNU General Public License 2.0",
    PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
    Header: `This program is free software; you can redistribute it and/or
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    Licenses["bsd"] = License{
        Name:            "NewBSD",
        PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
        Header: `All rights reserved.
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`,
        Text: `{{ .copyright }}`
    }
}

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1.36 metrics-jvm 4.0.2

1.37 iproute 4.3.0 1ubuntu3.16.04.5

1.37.1 Available under license :

This is the Debian GNU/Linux's prepackaged version of the Linux Traffic Control engine and related utils, "iproute2"

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

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
The following people have worked to translate sudo into other languages:

- Blittermann, Mario
- Bogusz, Jakub
- Casagrande, Milo
- Castro, Felipe
- Cho, Seong-ho
- Chornoivan, Yuri
- Diguez, Francisco
- Ferreira, Rafael
- Garca-Fontes, Walter
- Gezer, Volkan
- Hamasaki, Takeshi
- Hamming, Peter
- Hansen, Joe
- Hantrais, Frederic
- Hein, Jochen
- Hufthammer, Karl Ove
- Jerovek, Damir
- Karvonen, Jorma
- Kazik, Duan
- Kelemen, Gbor
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- Kozlov, Yuri
- Kramer, Jakob
- Krznar, Tomislav
- Marchal, Frederic
- Margeviuus, Algimantas
- Maryanov, Pavel
- Nikoli, Miroslav
- Nylander, Daniel
- Psa, Petr
- Qun, Trn Ngc
- Regueiro, Leandro
- Sarer, zgr
- Sendn, Abel
- Sikrom, ka
- Spingos, Dimitris
- Taniguchi, Yasuaki
- Tomat, Fbio
- Uranga, Mikel Olasagasti
- Vorotnikov, Artem
- Wang, Wylmer
1.43 base-passwd 3.5.39

1.43.1 Available under license:

Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

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1.45 okhttp 3.12.6

1.46 debconf 1.5.58ubuntu2

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1.47 libdevmapper 1.02.110 1ubuntu10

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1.49 tomcat-annotations-api 9.0.13

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1.50 readline 4.4.18 2ubuntu1

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Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

The files cipher/rndunix.c and cipher/rndw32.c are based on those files from Cryptlib. Copyright Peter Gutmann, Paul Kendall, and Chris Wedgwood 1996-1999.

The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

The implementation of the Camellia cipher has been been taken from the original NTT provided GPL source.

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1.56 tomcat-coyote 9.0.13

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Ubuntu Font Family Licensing FAQ

Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm
foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the [1]Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of [2]Canonical and [3]Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the [4]network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners’ experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users,
software freedom advocates, open source supporters and existing libre
font developers. Most importantly, the minds and wishes of professional
type designers considering entering the free software business
community must be taken on board.

Conversations and discussion has taken place, privately, with
individuals from the following groups (generally speaking personally on
behalf of themselves, rather than their affiliations):
* [5]SIL International
* [6]Open Font Library
* [7]Software Freedom Law Center
* [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences
is that of document embedding. Almost all font licences, both free and
unfree, permit embedding a font into a document to a certain degree.
Embedding a font with other works that make up a document creates a
"combined work" and copyleft would normally require the whole document
to be distributed under the terms of the font licence. As beautiful as
the font might be, such a licence makes a font too restrictive for
useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also
with tools such as GNU Bison: a vanilla GNU GPL licence would require
anything generated with Bison to be made available under the terms of
the GPL as well. To avoid this, Bison is [9]published with an
additional permission to the GPL which allows the output of Bison to be
made available under any licence.

The conflict between licensing of fonts and licensing of documents, is
addressed in two popular libre font licences, the SIL OFL and GNU GPL:
* [10]SIL Open Font Licence: When OFL fonts are embedded in a
document, the OFL’s terms do not apply to that document. (See
* [12]GPL Font Exception: The situation is resolved by granting an
additional permission to allow documents to not be covered by the
GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that
if the font is embedded and then extracted it is once again clearly
under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are
interested in finding a long-term libre licence that finds broad favour
across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.

* [13]Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.

* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the [14]Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interim. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:
8. Remove "not to be sold separately" clause
A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

13. https://launchpad.net/~uff-contributors

1.64 netcat 1.10-41.1

1.65 lua 5.2.4-1.1build1

1.66 gnu-tls 3.5.18-1ubuntu1.1
1.66.1 Available under license:

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1.74 memcached 1.0.18-4.2ubuntu0.18.04.1

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This file contains a list of people who have contributed code and effort to the memcached project. If you don't see your name mentioned send email to the memcached mailing list so you can be immortalized.

Also see the ChangeLog for even more people who have helped over the years by submitting fixes, patches and reporting bugs.

A list is generated from git here: http://memcached.org/about

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Brett Neumeier &lt;random@064:rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.

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Julian Morrison &lt;julian@064:entropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.

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Graham Coles &lt;graham.coles@064:retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.

Jarek Gawor &lt;gawor@mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

Elmar Sonnenschein &lt;eso@064:esomail.de&gt; - fix to long conversion in clean room SecureRandom.

J&ouml;rn von Kattch&eacute;e &lt;J.Kattchee@064:seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.

Matteo Artuso &lt;matartuso@064:libero.it&gt; - picking up the possible overead in ASN1InputStream.

Julian Morrison &lt;julian@064:entropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.

Elmar Sonnenschein &lt;eso@064:esomail.de&gt; - fix to long conversion in clean room SecureRandom.

Brett Neumeier &lt;random@064:rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.

Graham Coles &lt;graham.coles@064:retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.

Jarek Gawor &lt;gawor@mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

Casey Marshall &lt;rsdio@metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.

Rick Zeldes &lt;rick.zeldes@064:eds.com&gt; - initial code for CMS/SMIME CompressedData.

Jarek Gawor &lt;gawor@mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

Brett Neumeier &lt;random@064:rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.

Graham Coles &lt;graham.coles@064:retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.

Jarek Gawor &lt;gawor@mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

Elmar Sonnenschein &lt;eso@064:esomail.de&gt; - fix to long conversion in clean room SecureRandom.
Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences. </li>
<li>Brien Oberstein &lt;brien.oberstein@transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtility.</li>
<li>Ian Haywood &lt;ian@064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.</li>
<li>Jonathan Edwards &lt;s34gull@064mac.com&gt; - initial support for reading multiple rings from a PGP key file.</li>
<li>Andrew Thornton &lt;andrew@064cared.can.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.</li>
<li>Gregor Leander &lt;gl@064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.</li>
<li>Antoon Bosselaers &lt;Antoon.Bosselaers@064esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.</li>
<li>Peter Sylvester &lt;Peter.Sylvester@064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.</li>
<li>Doug &lt;ummmmm@064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.</li>
<li>Francois Staes &lt;fstaes@064netconsul.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.</li>
<li>W.R. Dittmer &lt;wdittmer@064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.</li>
<li>Perez Paz Luis Alberto &lt;laperez@064banxico.org.mx&gt; - patch to use of BitString in X.500 name.</li>
<li>James Wright &lt;James.Wright@064hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.</li>
<li>Jim Ford &lt;jim@064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
<li>Michael Hausler &lt;haeusler@064ponton-consulting.de&gt; - extra aliases for provider.</li>
<li>Sai Pullabhotla &lt;psai@064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>
<li>Joseph Miller &lt;joseph@064digiweb.net.nz&gt; - addition of ZeroBytePadding.</li>
<li>Lars &lt;xyz@064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
<li>Joeroen van Vianen &lt;joeroen@064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>
<li>Jun Sun &lt;JSun@064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
<li>Petr Dukem &lt;pdukem@064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
<li>Filipe Silva &lt;filipe.silva@064vedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.</li>
<li>Alpesh Parmar &lt;alps@064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
<li>Jay Gengelbach &lt;jgengelbach@064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>
<li>Doug &lt;doug@064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
<li>Matthew Mundy &lt;mmundy1@064umbc.edu&gt; - infinite loop prevention patch to PKCS5S2ParametersGenerator.</li>
<li>Tom Cargill &lt;cargill@064profcon.com&gt; - spelling patch in provider.
<li>Breitenstrom Christian &lt;C.Breitenstrom#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>

<li>Zanotti Mirko &lt;zanotti#064cad.it&gt; - patch to ordered equality test for X509Name.</li>

<li>Nicola Scendoni &lt;nscendoni#064babelps.it&gt; - patch to add sorting to CertPath validation.</li>

<li>Ville Skyttä &lt;ville.skyttä#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>

<li>Bruce Gordon &lt;bruce.gordon#064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputstream.</li>

<li>Miles Whiteley &lt;Miles.Whiteley#064savvis.net&gt; - "223" fix for BCPGInputstream new packets.</li>

<li>Albert Moliner &lt;amoliner#064evidencia.com&gt; - initial TSP implementation.</li>

<li>Carlos Lozano &lt;carlos#064evidencia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>

<li>Javier Delgadillo &lt;javi#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>

<li>Joni Hahkala &lt;joni.hahkala#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org">EGEE project</a> for making the work available.</li>

<li>Rolf Schillinger &lt;rolf#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>

<li>Sergey Bahtin &lt;Sergey_Bahtin#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>

<li>Franck Leroy &lt;Franck.Leroy#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>

<li>Atsuhiko Yamanaka &lt;ymnk#064craft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>

<li>Nickolay Bolshakov &lt;tyrex#064rekssoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>

<li>Soren Hilmer &lt;soren.hilmer#064tiitoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>

<li>Steve Mitchell &lt;mitchell#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.</li>

<p>Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</p>

<li>Dirk Eisner &lt;D.Eisner#064seeburger.de&gt; - initial implementation of ISO 78164-4 padding.</li>

<li>Julien Pasquier &lt;jluijenpasquier#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>

<li>Matteo &lt;matartuso#064libero.it&gt; - sequence patch to ASN1Dump.</li>

<li>Andrew Paterson &lt;andrew.paterson#064burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>

<li>Vladimir Molotkov &lt;vladimir.n.molotkov#064intel.com&gt; - extensive provider exception handling compliance testing.</li>

<li>Florin Kollan &lt;adlocflo#064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>

<li>Pavel Vassiliev &lt;paulvas#064gmail.com&gt; - Initial GOST28147Mac implementation.</li>

<li>Tom Pesman &lt;tom#064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li>

<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.
<li>Arndt Hasch &lt;Arndt.Hasch&#064maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li>
<li>Fix Bernd (KCDP 11) &lt;bernd.fix&#064credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.</li>
<li>David M. Lee &lt;dmlee&#064Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>
<li>Mike Dillon &lt;md5&#064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>
<li>tu-vi cung &lt;t2cung&#064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.</li>
<li>Chris Schultz &lt;cschultz&#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.</li>
<li>David M. Lee &lt;dmlee&#064Crossroads.com&gt; - implementation assistance with streaming CMS classes.</li>
<li>Joel Rees &lt;rees&#064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>
<li>Francesc Sau &lt;francesc.sau&#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li>
<li>Larry Bugbee &lt;larrybugbee&#064mackom.com&gt; - initial ECNR implementation.</li>
<li>Remi Blancher &lt;Remi.Blancher&#064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>
<li>Brian O'Rourke &lt;bianorourke&#064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li>
<li>Andreas Schwier &lt;andreas.schwier&#064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-ede 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-ECM and DESede-CMAC to JCE provider.</li>
<li>Kishimoto Kazuhiko &lt;kazu-k&#064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>
<li>Lawrence Tan &lt;lwrnctan&#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>
<li>Carlos Valiente &lt;superdupont&#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</li>
<li>Keyon AG, Martin Christinat, a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>
<li>Olf Keller, &lt;olf.keller.bc.com&#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>
<li>J&ouml;rg Eichhorn &lt;eichhorn&#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>
<li>Karsten Ohne &lt;widerstand&#064online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name types for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.</li>
<li>Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class,
and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.
CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.

Carlos Lozano Ruiz &lt;carlos@tradise.com&gt; - patch for &lt;ctrl&gt;&amp;&lt;shift&gt;&amp;&lt;enter&gt; only handling in CFLOutputStream.

John Alfred Prufrock &lt;j.a.prufrock@64gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;stefan@64gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice@64gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold@gmx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles@64yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;Pasi.Eronen@nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova@64gmail.com&gt; - support for tags > 30 in ASN.1 parsing.

Armin H&auml;berling &lt;arminha@student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;mschilder@64google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vouch &lt;xavier@64brittanysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews@64cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha@64gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info@64frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;r.ioaquim@64cc.isel.ipl.pt&gt; - initial implementation of RSA binding for signatures.

David Stacey &lt;DStacey@64allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers &lt;list@64mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies &lt;juilusdavies@64gmail.com&gt; - additional modes and algorithm support in PEMReader.

Matthias &lt;g@64rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga K&amp;uuml;htler &lt;olga.kaethler@64hp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo &lt;germano.rizzo@64gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

N&amp;uuml;le Mar&amp;uuml;ntec &lt;nnumaa@64hotmail.com&gt; - patch for alternate data type reconigntion in CMSSignedDataParser.

Janis Schuller &lt;j.s@64tzi.de&gt; - addition of NotationData packets for OpenPGP.
Michael Samblanet &lt;mike@064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns &lt;mstjohns@064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
<li>Ramon Keller &lt;ramon.keller@064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
<li>Mark Nelson &lt;mark@064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
<li>Eugene Golushkov &lt;eugene_g@064ukr.net&gt; - mask fix to single byte read in TLSInputStream.</li>
<li>Julien Pasquier &lt;julienpasquier@064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and es libraries.</li>
<li>Peter Knopp &lt;pknopp@064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>
<li>Jakub Gwozd &lt;gwozdiu@064rpg.pl&gt; - addition of getTsa() to TimeStampTokenInfo.</li>
<li>Bartosz Malkowski &lt;bmalkow@064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
<li>Tal Yacobi &lt;tal.yacobi@octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>
<li>Andrey Pavlenko &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>
<li>J Ross Nicoll &lt;jrn@064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
<li>Matthew Stevenson &lt;mavricknz@064yahoo.com&gt; - patch to constructor for CRMF CertSequence.</li>
<li>Gabriele Contini &lt;gcontini@064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEFs.</li>
<li>Roelof Naude &lt;roelof.naude@064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.</li>
<li>Patrick Peck &lt;peck@064signatures.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
<li>Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li>
<li>Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificateRequest [#BJA-102].</li>
<li>Michael Schoene &lt;michael@064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
<li>Jon Larrañaga &lt;ilarra@064s21sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.</li>
<li>Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.</li>
<li>Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>
<li>Robert J. Moore &lt;Robert.J.Moore@064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.</li>
<li>Rui Hodai &lt;ru@064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.</li>
<li>Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.</li>
<li>Paul FitzPatrick &lt;bouncycastle_pfitz@064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi.
comparison fix to BCStrictStyle.

Henrik Andersson <k.henrik.andersson#064gmail.com>; addition of UniqueIssuerID to certificate generation.

Cagdas Cirit <cagdascirit#064gmail.com>; subjectAlternativeName fix for x509CertStoreSelector.

Harakiri <harakiri_23#064yahoo.com>; datahandler patch for attached parts in SMIME signatures.

Pedro Henrique <pmahenriques#064gmail.com>; explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimminger &lt;lotjob#064kimmeringer.de&gt;; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME API.

Richard Farr <rfarr.se#064gmail.com>; initial SRP-6a implementation.

Thomas Castiglione <castiglione#064au.ibm.com>; patch to encoding for CRMF OptionalValidity.

Elisabetta Romani <eromani#064sogei.it>; patch for recognising multiple counter signatures.

Harakiri <harakiri_23#yahoo.com>; datahandler patch for attached parts in SMIME signatures.

Pedro Henrique <pmahenriques#064gmail.com>; explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kimminger &lt;lotjob#064kimmeringer.de&gt;; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME API.

Richard Farr <rfarr.se#064gmail.com>; initial SRP-6a implementation.

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Elisabetta Romani <eromani#064sogei.it>; patch for recognising multiple counter signatures.

Harakiri <harakiri_23#yahoo.com>; datahandler patch for attached parts in SMIME signatures.

Pedro Henrique <pmahenriques#064gmail.com>; explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.
Alf Malf &lt;alfilmalf@hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.
Alfonso Massa &lt;alfonso.massia@insiel.it&gt; contributions to CMS time stamp classes.
Giacomo Boccardo &lt;gboccardo@4 unusimatica spa.it&gt; initial work on CMSTimeStampedDataParser.
Arnis Tartu &lt;arnis@#064ut ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.
Janusz Sikociski &lt;J.Sikocinski#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.
Juri Hudolejev &lt;jhudolejev@#064gmail.com&gt; JavaDoc fix to CMSignedDataParser.
Liane Velten &lt;liane.velten@#064hj p consulting.com&gt; fine tuning of code for DHParameters validation.
Shawn Willden &lt;swillden@#064google.com&gt; additional functionality to PGPKeyRing.
Atanas Krachev &lt;akrachev@#064gmail.com&gt; added support for revocation signatures in OpenPGP.
Mickael Laiking &lt;mickael.laiking@#064keynectis.com&gt; initial cut of EAC classes.
Tim Buktu &lt;tbuktu@#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.
Bernd &lt;rbernd@#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.
Steing Inge Morisbak &lt;stein.inge.morisbak@#064BEKK.no&gt; Test code for lower case Hex data in PEM headers.
Andreas Schmid &lt;andreas.schmid@#064tn gtech.com&gt; Additional expiry time check in PGPPublicKeys.
Phil Steitz &lt;phil.steitz@#064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.
Petar Petrov &lt;p.petrov@#064bers soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.
Daniel Fitzpatrick &lt;daniel.f.nwr@#064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.
Andy Neilson &lt;Andy.Neilson@quest.com&gt; a further patches to deal with multiple providers and PEMReader.
Ted Shaw &lt;xiao.xj@#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.
Eleriseth &lt;Eleriseth@WPECGLtYbVi8Ri6Y7VzI2Lvd2EUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.
Kenny Root &lt;kenny@#064the b org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AED.
Maarten Bodewes &lt;maarten.bodewes@#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.
Philip Clay &lt;pilf_b@#064yahoo.com&gt; Initial implementation of J-PAKE.
Brian Carlstrom &lt;hdc@#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, intial provider PBKDF2WithHmacSHA1 SecretKeyFactory.
Samuel Lidkeaeute:n Borell &lt;samuel@#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.
Sergio Demian Lerner &lt;sergiolerner@#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.
Tim Whittington &lt;Tim.Whittington@#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoizable interface for Digest classes, initial implementation of GMAC, further correctness tests for
IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bugfixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work. 

Marcus Lundblad &lt;marcus.lundblad@primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation. 

Andrey Zhozhin &lt;zhozhin@064xrm.ru&gt; patch for override of TSP SignerInfo attributes. 

Sergey Tiunov &lt;tt5555d@064gmail.com&gt; initial cut of DVCS classes. 

Damian Kolasa &lt;fatfreddy@064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve. 

Ash Hughes &lt;ashley.hughes@064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures(). 

Daniel Hirsch &lt;dev@064daniel-hirsch.de&gt; patch to support parsing of explicit EC parameters in PEM files. 

Daniele Ricci &lt;daniele.athome@064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support. 

Mattia Aarnio &lt;matti.aarnio@064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner. 

Babak Najafi &lt;bnajafi@064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems. 

Eric Mueller &lt;eric.mueller@064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter. 

Mathias Herbert &lt;Mathias.Herbert@064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine. 

Daniil Ivanov &lt;daniil.ivanov@064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory. 

Daniele Grasso &lt;daniele.grasso@064gmail.com&gt; contributions to final Key calculation code for SRP6. 

Andrey Utkin &lt;cindrhc@064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes. 

Arnis Tartu &lt;arnis@064at.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder. 

AxelVDB &lt;axel-vdb@riseup.net&gt; initial implementation of Shacal2. 

Roberto Tyley &lt;lt@tyley@064gmail.com&gt; further work on completing gradle build. 

Waldemar Dick &lt;wdick@064devmue.de&gt; code improvement in x500 ASN.1 package. 

Sid Steward &lt;sid.steward@064pdflabs.com&gt; code improvements to ASN1Boolean. 

Alex Klyubin &lt;klyubin@064google.com&gt; AlgorithmParameters check for EC key agreement. 

Jonathan Gillett &lt;gsoc.student@064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix. 

Andreas Reiter &lt;andreas.reiter@064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix. 

Kieran Miller &lt;kieran.miller@064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding. 

Oliver Ehli &lt;ehli@064arago.de&gt; Additional support for BSI plain ECDSA in the provider.
Daniel Heldt &lt;Daniel.Heldt@cryptovision.com&gt; - Initial support for encodable state message digests.

Robert Bushman &lt;bouncycastle@064traxel.com&gt; - Clean up of DirectKeySignature example.

Maurice Aarts &lt;maarts@064risecure.com&gt; - Updated to KDF generator to follow NIST SP 800-108.


KB Sriram &lt;mail_kb@064yahoo.com&gt; - Testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze &lt;marco@064nightlabs.de&gt; - Reported verification bug in GenericSigner.

Martin Schaefer &lt;https://github.com/martinschaefer&gt; - Contributed a code-cleanup patch.

dstutz &lt;https://github.com/dstutz&gt; - Added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich &lt;mailto:tobias.wich@064ecsec.de&gt; - Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrzens &lt;hauke@064hauke-m.de&gt; - TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman &lt;dmz@064galois.com&gt; - Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitza &lt;jkapitza@064schwarzewalliance.de&gt; - Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund &lt;mailto:johan@064primekey.se&gt; - Updated to RFC 6960 for OCSPObjectIdentifiers.

nikosn &lt;https://github.com/nikosn&gt; - Fix to encoding of EC private keys to ensure encoding matches order length.

Axel von dem Bruch &lt;mailto:axel-vdb@064riseup.net&gt; - Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.

Derek Atkins &lt;derek@064ihftp.com&gt; - Documentation fixes to X9ObjectIdentifiers.

Peter Jr Halicky &lt;mailto:peto@064halicky.sk&gt; - Correction to notification/error message handling in SignedMailValidator.


Thomas Belot &lt;mailto:thomas.belot+BC@gmail.com&gt; - Initial CertPathLoopTest for demonstrating stack overflow issue.

Rich DiCroce &lt;https://github.com/rdicroce&gt; - Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.

Björn Kautler &lt;https://github.com/Vampire&gt; - Refinements to cert path validation (authority key addition, certificate order preservation).

Dominik Schümmern &lt;https://github.com/dschuermann&gt; - Method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.

Michael &lt;mailto:MSKnete@064web.de&gt; - Initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.

Tobias Wagner &lt;mailto:tobias.wagner@064n-design.de&gt; - Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].

Sergio Giro &lt;mailto:sgiro@064google.com&gt; - Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.

bschuette &lt;https://github.com/bschuette&gt; - Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.

Leonard Dallot &lt;https://github.com/dallotTazTag&gt; - Fix to S2K usage of none on changing passwords on keys without passwords originally.
Jan Willem Janssen &lt;j.w.janssen+bouncycastle@064lxtrme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.

Kai Kramer &lt;kai.kramer@064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benjamin Janssen &lt;benjamin.janssen@064pentrust.com&gt; Fix for IES data length check on decryption.

Niko &lt;ntnfink95@064gmail.com&gt; Fix to cast issue in getOutputSize() for ECIES.

akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.

Matthias Edelhoff &lt;Matthias.Edelhoff@064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.

Luke Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.

Kai Kramer &lt;kai.kramer@gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles &lt;benoit.charles@064penttrust.com&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.

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Kai Kramer &lt;kai.kramer@gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.

Benoit Charles &lt;benoit.charles@064penttrust.com&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.
Artem Storozhuk &lt;storojs72&#064;gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser &lt;andreas.glaser&#064;de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.

j miner &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s

Scott Woodward &lt;https://github.com/scott&amp;#064;bit3consulting.com&gt; performance fixes for CTRSP800DRBG.

David Strawn &lt;https://github.com/dstrawn&gt; fix for off by one error in SCRYPT bounds checking.

chris mccown &lt;https://github.com/chrismccown&amp;#064;gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).

ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.

Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion()

Armin Lunkeit, Michael Tautenhahn &lt;&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.

Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP secret key encryption.

Adam Vartanian &lt;https://github.com/AdamVartanian&gt; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().

Bernd &lt;https://github.com/bernd&gt; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.

Shartung &lt;https://github.com/shartung&gt; Additional EC Key Agreement algorithms in support of German BSI TR-03111.

Paul Schaub &lt;https://github.com/paulschaub&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.

Nick of Nexxar &lt;https://github.com/NickOfNexxar&gt; update to OpenPGP package to handle a broader range of EC curves.

catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).

gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.

fgrieu &lt;fgrieu&amp;#064;gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEP Encoding and RSACoreEngine.

MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.

Andreas Gadermaier &lt;https://github.com/AAndreasGadermaier&gt; initial version of Argon2 PBKDF algorithm.

Tony Washer &lt;https://github.com/tonywasher&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.

Vincent Bouckaert &lt;https://github.com/veebbee&gt; initial version of RFC 4998 ASN.1 classes.

<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>
<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>
<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>
<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>
<li>Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.</li>
<li>Haemin Yoo &lt;https://github.com/yoohainmin&gt; Javadoc fixes.</li>
<li>Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.</li>
<li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.</li>
<li>Moses Palm&eacute;r, TrueSec &lt;Henrik.Palmer#064truesec.se&gt; Additional improvements to constant time comparisons.</li>
<li>Ren&eacute; Korthaus &lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS<sup>^</sup>MT OID values to bring them in line with RFC 8391.</li>
<li>THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.</li>
<li>Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.</li>
<li>gaellalire &lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.</li>
<li>Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
<li>dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>
<li>Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>
<li>Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>
<li>Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>
<li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.</li>
<li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
<li>vkreml &lt;https://github.com/vkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &lt;https://github.com/tobias&amp;#064pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.</li>
</ul>

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1.77 dash 0.5.8 2.10

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package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a [code java.io.FilePermission] object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * [code java.lang.RuntimePermission],
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * <p>An important method that must be implemented by each subclass is
 * the [code implies] method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 *
 * <p>Permission objects are similar to String objects in that they
 * are immutable once they have been created. Subclasses should not
 * provide methods that can change the state of a permission
 * once it has been created.
 *
 * @see Permissions
 * @see PermissionCollection
 *
 * @author Marianne Mueller
 * @author Roland Schemers
 */

public abstract class Permission implements Guard, java.io.Serializable {

    private static final long serialVersionUID = -563657022231596674L;

    private static final long serialVersionUID = -563657022231596674L;


private String name;

/**
 * Constructs a permission with the specified name.
 * @param name name of the Permission object being created.
 */
public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The
 * { @code SecurityManager.checkPermission} method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws
 * a SecurityException.
 * @param object the object being guarded (currently ignored).
 * @throws SecurityException
 *        if a security manager exists and its
 *        { @code checkPermission} method doesn't allow access.
 * @see Guard
 * @see GuardedObject
 * @see SecurityManager#checkPermission
 */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <p>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 * <p>
 * The { @code implies} method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 * */
public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * @param obj the object we are testing for equality with this object.
 * @return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * The required \{@code hashCode\} behavior for Permission Objects is
 * the following:
 * @return a hash code value for this object.
 */

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a \{@code java.io.FilePermission\},
 * the name will be a pathname.
 */
public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 *<pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 *</pre>
 * both return
 * "read,write" when the {@code getActions} method is invoked.
 *<@
 * @return the actions of this Permission.
 *</

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the {} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *<@
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() {
    return null;
}
package java.security.acl;

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: ('ClassName" "name" "actions"'), or
 * ('ClassName" "name"") if actions list is null or empty.
 *
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}

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 * or visit www.oracle.com if you need additional information or have any
 * questions.
 */
/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 * @author Satish Dharmaraj
 */
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();
}

1.79 iputils 20161105 r1
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1.80 iso-codes 3.79 1

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1.81 metrics-httpclient 4.0.2

1.82 readline 8.0.0 r0
1.83 iputils 20161105-1

1.83.1 Available under license:

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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

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

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

image:$(BSD_LIB)
$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(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 $(BSD_LIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(BSD_LIB_INSTALL_DIR)/$(BSD_LIB)
-$(LDCONFIG)
install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSD_LIB_INSTALL_DIR)/$(BSD_LIB)
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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using the "WIP" test distributions or one from the hg or git
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(tytso@mit.edu) before you ship. The release schedules for this
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Theodore Ts'o
23-June-2007

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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@@ -4,11 +4,11 @@ Rev: 23371
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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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1.92 nghttp 1.30.0 1ubuntu1

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History and License
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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 (now Zope Corporation; see
http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
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Mersenne Twister
----------------

The :mod:`_random` module includes code based on a download from
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.  
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html  
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Sockets
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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The :mod:`xmlrpc.client` module contains the following notice::

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test_epoll

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---------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
---------------

The file `Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash
-------
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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

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Index Entry

Section
Appendix A Copying and indices

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Appendix A Copying and indices
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Jump to: &nbsp; | &nbsp; 
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Index Entry | Section
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Copying appendix | Appendix A Copying and indices

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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

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

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

$(BSD_LIB): $(OBJ)
(cd pic; ld -bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(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-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)

This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/ext2fs/

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otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007
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Version 2, June 1991

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

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

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

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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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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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However, linking a "work that uses the Library" with the Library
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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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That's all there is to it!
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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Julian Seward, jseward@acm.org
bzip2/libbzzip2 version 1.0.8 of 13 July 2019

----------------------------------------------------------------------------

1.103 apache 2.4.29-1ubuntu4.8
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* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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/*

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For the server\util_md5.c component:

/************************************************************************
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
* Copyright (C) 1995, Board of Trustees of the University of Illinois
*
************************************************************************

* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
*
* Original Code Copyright (C) 1994, Jeff Hostetler, Spyglass, Inc.
* Portions of Content-MD5 code Copyright (C) 1993, 1994 by Carnegie Mellon
* University (see Copyright below).
* Portions of Content-MD5 code Copyright (C) 1991 Bell Communications
* Research, Inc. (Bellcore) (see Copyright below).
* Portions extracted from mpack, John G. Myers - jgm+@cmu.edu
* Content-MD5 Code contributed by Martin Hamilton (martin@net.lut.ac.uk)
*
*/

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*/

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/
/*
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*/

For the src/libapr/passwd/apr_md5.c component:

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 * /

/* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm */

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*/
*/
* The apr_md5_encode() routine uses much code obtained from the FreeBSD 3.0
* MD5 crypt() function, which is licenced as follows:
* .................................................................
* "THE BEER-WARE LICENSE" (Revision 42):
* <phk@login.dknet.dk> wrote this file. As long as you retain this notice you
* can do whatever you want with this stuff. If we meet some day, and you think
* this stuff is worth it, you can buy me a beer in return. Poul-Henning Kamp
* .................................................................
*/

For the srclib\apr-util\crypto\apr_md4.c component:

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*/

For the srclib\apr-util\include\apr_md4.h component:

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* */

For the srclib\apr-util\test\testmd4.c component:

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* */

For the test\zb.c component:

/*
   ZeusBench V1.01
   =============

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

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

/*
# GENERATED FROM XML -- DO NOT EDIT

URI: license.html.en
Content-Language: en
Content-type: text/html; charset=ISO-8859-1
<!--<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">-->
Apache License

Version 2.0, January 2004

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Available Languages: en

Comments

Notice: This is not a Q&A section. Comments placed here should be pointed towards suggestions on improving the documentation or server, and may be removed again by our moderators if they are either implemented or considered invalid/off-topic. Questions on how to manage the Apache HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our mailing lists at http://httpd.apache.org/lists.html.
1.1.06 cracklib 2.9.2 5build1

1.106.1 Available under license:

----------

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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

Attachments: Message as HTML

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

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

-- Nathan

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

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

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

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

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

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

=2Dmike

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

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
point,
> > it was enough to just get it consistent and documented as to what
it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> >
> > the original license (before moving to sourceforge -- aka, 2.7) was
not
> > GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> > change until it was mentioned in the latest notes.
>>
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> > applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictate to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

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

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>

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

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

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

Cheers,

Nalin

---

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> 
> > In any case, I thank you both for working on sorting this out.
> 
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?
> -mike

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

yes. go for it. thanks++

-a

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

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

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

-mike

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

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.
This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtptr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 11c0cX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
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Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
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-a

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1.108 dropwizard-core 1.3.2

1.109 mergo v0.3.5
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```
import: ../../../../fossene/db/schema/thing.yml
```

```
fields:
  site: string
  author: root
```

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From: Michael Biebl <biebl@debian.org>
Date: Sun, 17 Dec 2017 00:31:20 +0100
Subject: Revert "udev-rules: Permission changes for /dev/dri/renderD*

This would introduce a new system group "render". As the name is rather generic, this needs further discussion first, so revert this change for now.

This reverts commit 4e15a7343cb389e97f3eb4f49699161862d8b8b2.
---
meson.build | 2 --
meson_options.txt | 2 --
rules/50-udev-default.rules.in | 5 +-----
src/login/70-uaccess.rules | 2 +-
4 files changed, 2 insertions(+), 9 deletions(-)
diff --git a/meson.build b/meson.build
index c734561..b9e59ec 100644
--- a/meson.build
+++ b/meson.build
@@ -753,7 +753,6 @@ if get_option('wheel-group')
     endif

     substs.set('DEV_KVM_MODE', get_option('dev-kvm-mode'))
-    substs.set('GROUP_RENDER_MODE', get_option('group-render-mode'))
     kill_user_processes = get_option('default-kill-user-processes')
     conf.set10('KILL_USER_PROCESSES', kill_user_processes)

@@ -2741,7 +2740,6 @@ status = [
     'minimum container UID base:        @0@'.format(container_uid_base_min),
     'maximum container UID base:        @0@'.format(container_uid_base_max),
-    'render group access mode:          @0@'.format(get_option('group-render-mode')),
     'dev/kvm access mode:               @0@'.format(get_option('dev-kvm-mode')),
     'certificate root directory:        @0@'.format(get_option('certificate-root')),
     'support URL:                       @0@'.format(support_url),
     'nobody user name:                  @0@'.format(nobody_user),

diff --git a/meson_options.txt b/meson_options.txt
index 39822d6..b1d035f 100644
--- a/meson_options.txt
+++ b/meson_options.txt
@@ -177,8 +177,6 @@ option('nobody-group', type : 'string',
     value : 'nobody')
     option('dev-kvm-mode', type : 'string', value : '0666',
             description : '/dev/kvm access mode')
-    option('group-render-mode', type : 'string', value : '0666',
-           description : 'Access mode for devices owned by render group (e.g. /dev/dri/renderD*, /dev/kfd).')
     option('default-kill-user-processes', type : 'boolean',
             description : 'the default value for KillUserProcesses= setting')
     option('gshadow', type : 'boolean',

diff --git a/rules/50-udev-default.rules.in b/rules/50-udev-default.rules.in
index bd4c215..549a4f0 100644
--- a/rules/50-udev-default.rules.in
+++ b/rules/50-udev-default.rules.in
@@ -31,14 +31,11 @@ SUBSYSTEM=="input", KERNEL=="js[0-9]*", MODE="0664"
     SUBSYSTEM="video4linux", GROUP="video"
     SUBSYSTEM="graphics", GROUP="video"
-    SUBSYSTEM="drm", KERNEL!="renderD*", GROUP="video"
+    SUBSYSTEM="drm", GROUP="video"
     SUBSYSTEM="dvb", GROUP="video"
     SUBSYSTEM="media", GROUP="video"
     SUBSYSTEM="cec", GROUP="video"
diff --git a/src/login/70-uaccess.rules b/src/login/70-uaccess.rules
index f2c838f..f3a2e66 100644
--- a/src/login/70-uaccess.rules
+++ b/src/login/70-uaccess.rules
@@ -45,7 +45,7 @@ SUBSYSTEM=="firewire", ATTR{units}=="*0x00a02d:0x010001*", TAG+="uaccess"
 SUBSYSTEM=="firewire", ATTR{units}=="*0x00a02d:0x014001*", TAG+="uaccess"

# DRI video devices
-SUBSYSTEM=="drm", KERNEL=="card*", TAG+="uaccess"
+SUBSYSTEM=="drm", KERNEL=="card*|renderD*", TAG+="uaccess"

# smart-card readers
ENV{ID_SMARTCARD_READER}=="?*", TAG+="uaccess"

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```
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1.115 mchange-commons-java 0.2.11

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1.116 libtiff 4.0.9-5ubuntu0.3

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1.117 jersey-entity-filtering 2.22

1.118 icu 63.1 6

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD) 
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## Commands to generate dependency files 
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS) 
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS) 

## Flags for position independent code 
SHAREDLIBCFLAGS = -fPIC 
SHAREDLIBCXXFLAGS = -fPIC 
SHAREDLIBCPPFLAGS = -DPIC 

## Additional flags when building libraries and with threads 
THREADSCPPFLAGS = -D_REENTRANT 
LIBCPPFLAGS = 

## Compiler switch to embed a runtime search path 
LD_RPATH= 
LD_RPATH_PRE=-Wl,-rpath, 

## Compiler switch to embed a library name 
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET)) 

## Shared library options 
LD_SOOPTIONS= -Wl,-Bsymbolic 

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

## Compilation rules 
%.S(STATIC_O): $(srccd)/%.c 
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCPPFLAGS) -o $@ < 
%.o: $(srccd)/%.c 
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCPPFLAGS) -o $@ < 
```

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## Dependency rules

%.d: $(srctmp)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n  \| rm -f $@" \\
%.d: $(srctmp)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n  \| 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
This package was debianized by Jay Berkenbilt <qjb@debian.org> on August 5, 2005.
The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on Tue, 17 Mar 2015.

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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.

@example
@var{one line to give the program's name and a brief idea of what it does.}
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it under the terms of the GNU General Public License as published by
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@end smallexample

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:

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

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commands you use may be called something other than @samp{show w} and
@samp{show c}; they could even be mouse-clicks or menu items---whatever
suits your program.

You should also get your employer (if you work as a programmer) or your
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img
---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Create 1st primary partition
ada6ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
<removed>2 4096 20479 16384 8M a5 FreeBSD

Create default BSD
2e1cee529cb59c9341afe0443f196e1 bsd.img

---layout--------
Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
  c   4096 20479  16384    8M unused 0 0 0
  d  0 16064  16065  7.9M unused 0 0 0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
  a   4096 6144  2049 1M 4.2BSD   0 0 0
  c   4096 20479  16384   8M unused 0 0 0
  d  0 16064  16065  7.9M unused 0 0 0

Partition table entries are not in disk order.
Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

```
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition   a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V
```

Command (m for help):

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1.125 tdb 1.43.7-r0

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<link rel="stylesheet" type="text/css" href="./style/css/prettify.css" />
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</head>
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<link href="./style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
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<link rel="stylesheet" type="text/css" href="./style/css/prettify.css" />
<script src="./style/scripts/prettify.min.js" type="text/javascript"></script>

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    if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
        d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
    } else {
        d.write('Comments are disabled for this page at the moment.</div>');
    }
})(window, document);

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
* *
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 * Written by Adam Twiss (adam@zeus.co.uk). March 1996
 *
 * Thanks to the following people for their input:
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 * Michael Campanella (campanella@stevms.enet.dec.com)
 */

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1.140 bash 5.0.7

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1.148 jersey-client 2.25.1

1.149 pythonurllib 1.22-1ubuntu0.18.04.1

1.149.1 Available under license:

# Contributions to the urllib3 project

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  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

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  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

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  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

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

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

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

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

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

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

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

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

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

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

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

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

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

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

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection
* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

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  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
* Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * `HTTPResponse` contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when `amt=None`.
  * Added `length_remaining` to determine remaining data to be read.
  * Added `enforce_content_length` to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist
* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

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

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
## Additional flags when building libraries and with threads

THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path

LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath, 

## Compiler switch to embed a library name

LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options

LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

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

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

## Dependency rules

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

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

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$($RM) $@ && ln -s $(<F>) $@
## 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

### 1.152 diffutils 3.3-3

#### 1.152.1 Available under license :

This is the Debian prepackaged version of the GNU diffutils package.
GNU `diff' was written by Mike Haertel, David Hayes, Richard Stallman, Len Tower, and Paul Eggert. Wayne Davison designed and implemented the unified output format. GNU `diff3' was written by Randy Smith. GNU `sdiff' was written by Thomas Lord. GNU `cmp' was written by Torbjorn Granlund and David MacKenzie.

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1.155 node-ansi 0.3.0-2ubuntu1

1.156 time 1.7-25.1build1

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1.163 python-colorama 0.3.7-1

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1.164 pcre 8.39 9

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1.165 keyutils 1.5.9 8ubuntu1

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<one line to give the program's name and a brief idea of what it does.>
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1.167 apt 1.8.2

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<signature of Ty Coon>, 1 April 1989
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1.168 pycryptodome 3.4.7-1ubuntu1
1.168.1 Available under license:

From dlitz@dlitz.net Sat Feb 28 21:45:09 2009
Date: Sat, 28 Feb 2009 21:45:09 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Barry A Warsaw <barry@python.org>
Subject: PyCrypto license clarification
Message-ID: <20090301024509.GA13195@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2535

Hi Barry,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear
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Below, I have quoted a public domain dedication that was recommended in
_Intellectual Property and Open Source: A Practical Guide to Protecting
Code_, by Van Lindberg. I have already contacted A. M. Kuchling, Robey
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for their contributions.

I understand that you have made contributions to PyCrypto. May I, on your
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- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
  Key-signing key  - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From barry@python.org Mon Mar  2 11:29:39 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <barry@python.org>
On Feb 28, 2009, at 9:45 PM, Dwayne C. Litzenberger wrote:

> I am the new maintainer of the Python Cryptography Toolkit, and I am =20=
> working on a new release at http://www.pycrypto.org/.

Great! I'm glad to see someone taking up the mantle of this important =20=
Python library.

> I understand that you have made contributions to PyCrypto. May I, =20=
> on your behalf, dedicate to the public domain all your contributions =20=
Hi Paul,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify").

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--amk (www.amk.ca)

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I understand that you have made contributions to PyCrypto, under nickname "z3p" and/or other names. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From paulswartz@gmail.com Mon Aug  3 12:14:07 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <paulswartz@gmail.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6]) by rivest.dlitz.net (Postfix) with ESMTP id 30B9D984FC4 for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 12:14:07 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1]) by goedel.dlitz.net (Postfix) with QMQP id AD9AE81068 for <dwon@rivest.dlitz.net>; Mon,  3 Aug 2009 10:14:06 -0600 (CST)
Received: (vmailmgr-postfix 32055 invoked by uid 1003); 3 Aug 2009 10:14:06 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (gmail.com ... _spf.google.com: 72.14.220.159 is authorized to use 'paulswartz@gmail.com' in 'mfrom' identity (mechanism 'ip4:72.14.192.0/18' matched)) receiver=goedel.dlitz.net; identity=mfrom; envelope-from="paulswartz@gmail.com"; helo=fg-out-1718.google.com; client-ip=72.14.220.159
Received: from fg-out-1718.google.com (fg-out-1718.google.com [72.14.220.159])
by goedel.dlitz.net (Postfix) with ESMTP id 4E63881066
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Received: by fg-out-1718.google.com with SMTP id d23so1076840fga.3 for <dlitz@dlitz.net>; Mon, 03 Aug 2009 09:14:04 -0700 (PDT)
DKIM-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed;
d=gmail.com; s=gamma;
h=domainkey-signature:mime-version:received:in-reply-to:references
:content-type:content-transfer-encoding;
bh=a0RHBi0TNrijKS5qOHIJ3WYbkZ+b0cuPeuoKAvpApWcc=;
b=gyTqkRhhKiAdFKI5CBWsRbnMNVDrqIPWJJbyC0EvxFskaaHR3HAR96MWQNBepU/40Ac
Vn55qIIqTdom4e9zUE6E6Wzo9kqJ/Qw0L/SLib0DIQeNqo/eHYqPmuVswltaYwNAyMJ
Y9++76rPGzqYdALsfvmwv7Q3/bEmjYTr0tQE=
DomainKey-Signature: a=rsa-sha1; c=nofws;
d=gmail.com; s=gamma;
h=mime-version:in-reply-to:references:from:date:message-id:subject:to
:content-type:content-transfer-encoding;
b=jze7KSMMUGilfVCXXKaaxMi5NAtQdMQOtvZzzFrNyGSy68xOd2sxefiyiyig3EfT6Nv6
Q3opUMsT96Q6zjZND55w446kTh2uBTNz4d3NweiEWJnG3xiiRQu/mXPFp8AzP13CefL
1ormJLM1eQ2XyuZA73jem+SItfDHUCSD1Uhgl=
MIME-Version: 1.0
Received: by 10.239.157.147 with SMTP id q19mr601802hbc.61.124931603185; Mon,
03 Aug 2009 09:14:03 -0700 (PDT)
In-Reply-To: <20090803014825.GA1326@rivest.dlitz.net>
References: <20090803014825.GA1326@rivest.dlitz.net>
From: Paul Swartz <paulswartz@gmail.com>
Date: Mon, 3 Aug 2009 12:13:43 -0400
Message-Id: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: quoted-printable
Status: RO
X-Status: A
Content-Length: 1450

On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wro=
te:
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>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
That's great!

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> blic
> domain all your contributions to PyCrypto, with the following notice?
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=
> yes, granted a worldwide, perpetual, royalty-free, non-exclusive lice=
> nse
> =C2=A0=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D=3D
> Yes, that's fine. Good luck with the new release!

-p
--=20
Paul Swartz
paulswartz at gmail dot com
http://paulswartz.net/
AIM: z3pengui

From dlitz@dlitz.net Mon Aug 3 14:35:01 2009
Date: Mon, 3 Aug 2009 14:35:01 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Paul Swartz <paulswartz@gmail.com>
Subject: Re: PyCrypto license clarification
Message-ID: <20090803183501.GA17472@rivest.dlitz.net>
References: <20090803144825.GA1326@rivest.dlitz.net>
<324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=flowed
Content-Disposition: inline
Content-Transfer-Encoding: 8bit
In-Reply-To: <324cfb540908030913x71d331f0kb069052f74e5ae6b@mail.gmail.com>
X-Primary-Address: dlitz@dlitz.net
X-Homepage: http://www.dlitz.net/
On Mon, Aug 03, 2009 at 12:13:43PM -0400, Paul Swartz wrote:
> On Sun, Aug 2, 2009 at 9:48 PM, Dwayne C. Litzenberger<dlitz@dlitz.net> wrote:
>   >> Hi Paul,
>   >>
>   >> I am the new maintainer of the Python Cryptography Toolkit, and I am
>   >> working on a new release at http://www.pycrypto.org/.
>   >
>   >That's great!
>   >
>   >> I understand that you have made contributions to PyCrypto, under nickname
>   >> "z3p" and/or other names. May I, on your behalf, dedicate to the public
>   >> domain all your contributions to PyCrypto, with the following notice?
>   >>
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>   >> is granted a worldwide, perpetual, royalty-free, non-exclusive license
>   >> to exercise all rights associated with the contents of this file for
>   >> any purpose whatsoever. No rights are reserved.
>   >>
>   >Yes, that's fine. Good luck with the new release!

Perfect! Thanks for the quick response!

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Date: Mon, 16 Feb 2009 12:58:00 -0800
From: Robey Pointer <robey@lag.net>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Received-SPF: pass (goedel.dlitz.net: domain of robey@lag.net designates 69.61.78.186 as permitted sender)
Message-Id: <F469A078-6305-4484-BEA8-F4EC38A4154F@lag.net>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1
On 23 Nov 2008, at 07:42, Dwayne C. Litzenberger wrote:

> For the next PyCrypto release, I would like to take steps to move
> toward a clearer licensing regime. I am asking as many copyright
> holders as I can find if I can release PyCrypto under something
> clearer and more standard. Below, I have quoted a public domain
> dedication that was recommended in _Intellectual Property and Open
> Source: A Practical Guide to Protecting Code_, by Van Lindberg. I
> have already contacted A. M. Kuchling, and he has approved the
> following dedication for his contributions.
> 
> May I, on your behalf, dedicate to the public domain all your
> contributions to PyCrypto, with the following notice?
> 
> =
> =====================================================================
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> the
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> everyone
> is granted a worldwide, perpetual, royalty-free, non-exclusive
> license
> to exercise all rights associated with the contents of this file
> for
> any purpose whatsoever. No rights are reserved.
> =
> =====================================================================
> 
In case I haven't replied to this yet: Yes, this is fine with me.

robey

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.8 (Darwin)

iEYEARECAAYFAkmZ0lgACgkQQQDkKvyJ6cOLvQCIQmYYuVODvIlLyLg0hgCl9LaQ
SH8AoLJgaq1Il7iZIYDc+/Cd8VO0xLbr
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-----END PGP SIGNATURE-----
From dlitz@dlitz.net Sun Nov 23 00:17:22 2008
Date: Sun, 23 Nov 2008 00:17:22 -0500
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: "A. M. Kuchling" <amk@amk.ca>
Subject: PyCrypto license clarification
Message-ID: <20081123051722.GA29253@rivest.dlitz.net>
Hi Andrew,

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

Incorporating the code into commercial products is permitted; you do not have to make source available or contribute your changes back (though that would be nice).
For the next PyCrypto release, I’d like to take steps to move toward a clearer licensing regime. I’m asking as many copyright holders as I can find, starting with you, if I can release PyCrypto under something clearer and more standard. Below, I have quoted a public domain dedication that was recommended in _Intellectual Property and Open Source: A Practical Guide to Protecting Code_ by Van Lindberg.

May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

```
May I, on your behalf, dedicate to the public domain your considerable contributions to PyCrypto, with the following notice?

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```

Regards,
- Dwayne

Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

--YiEDa0DAkWCtVeE4
Content-Type: application/pgp-signature; name="signature.asc"
Content-Description: Digital signature
Content-Disposition: inline

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  =aBEW
-----END PGP SIGNATURE-----

--YiEDa0DAkWCtVeE4--
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> GPL-compatible, etc. Right now, I'm not really sure what to tell them.
> The text in the current LICENSE file (quoted below) is not entirely clear
> on the point of whether distributing modified versions is allowed. (It
> says "distribute and use", but not "modify".)

The intention is that it be public domain.

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---

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> says "distribute and use", but not "modify".)

The intention is that it be public domain.

> May I, on your behalf, dedicate to the public domain your considerable
> contributions to PyCrypto, with the following notice?
Previously, the copyright and/or licensing status of the Python Cryptography Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author’s website came with a license that contained a GPL-incompatible advertising clause.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

1. Obtaining explicit permission from the original contributors to dedicate their contributions to the public domain if they have not already done so. (See the "LEGAL/copy/stmts" directory for contributors' statements.)

2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

To the best of our knowledge, with the exceptions noted below or within the files themselves, the files that constitute PyCrypto are in the public domain. Most are distributed with the following notice:
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tsu-notify.mbox - Notification sent per U.S. export regulations
copy/ - Copyright info & public-domain dedications

From dlitz@dlitz.net Wed Aug 27 20:54:38 EDT 2008
X-Maildir-Dup-Checked: Yes
Return-Path: <dlitz@dlitz.net>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net

Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id ECFDFC6641D
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 20:45:06 -0400 (EDT)
Received: from localhost (localhost [127.0.0.1])
by goedel.dlitz.net (Postfix) with QMQP id 99A9D100AA
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
Received: (vmailmgr-postfix 3270 invoked by uid 1003); 27 Aug 2008 18:45:05 -0600
Delivered-To: m-dlitz-dlitz@dlitz.net
Received-SPF: pass (goedel.dlitz.net: domain of dlitz@dlitz.net designates 193.201.42.13 as permitted sender)
Received: from m14.itconsult.net (m14.itconsult.net [193.201.42.13])
by goedel.dlitz.net (Postfix) with ESMTP id 1D3B510088
for <dwon@rivest.dlitz.net>; Wed, 27 Aug 2008 18:45:05 -0600 (CST)
Received: from stamper.itconsult.co.uk (stamper.itconsult.co.uk [193.201.42.31]) by m14.stamper.itconsult.co.uk (GMS 15.01.3664/NT8923.00.54dca388) with SMTP id jfxsjqaa for dlitz@dlitz.net;
Thu, 28 Aug 2008 01:45:02 +0100
To: crypt@bis.doc.gov,
   enc@nsa.gov,
   web_site@bis.doc.gov,
   pycrypto@lists.dlitz.net,
Open Source Used In Cisco Ultra Cloud Platform 2019.092009
SUBMISSION TYPE: TSU
SUBMITTED BY: Dwayne C. Litzenberger
SUBMITTED FOR: Dwayne C. Litzenberger
POINT OF CONTACT: Dwayne C. Litzenberger
PHONE and/or FAX: +1-613-693-1296
MANUFACTURER: n/a
PRODUCT NAME/MODEL #: The Python Cryptography Toolkit ("PyCrypto")
ECCN: 5D002

NOTIFICATION: http://www.pycrypto.org/

Note: I am a Canadian citizen posting software to my website located in Canada. I am not certain whether PyCrypto contains enough US-origin cryptography to be covered by U.S. export controls, but I am submitting this anyway.

(Sorry for spamming the lists, but I want there to be a record of this.)

- --
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key  - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7
Annual key (2008) - 4B2A FD82 FC7D 9E38 38D9 179F 1C11 B877 E780 4B45

-----BEGIN PGP SIGNATURE-----
Version: 2.6.3i
Charset: noconv
Comment: Stamper Reference Id: 0520978
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.

<table>
<thead>
<tr>
<th>Release</th>
<th>Derived from</th>
<th>Year</th>
<th>Owner</th>
<th>GPL-compatible?</th>
</tr>
</thead>
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<tr>
<td>0.9.0 thru 1.2</td>
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<td>CWI</td>
<td>yes</td>
</tr>
<tr>
<td>1.3 thru 1.5.2</td>
<td>1.2</td>
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</tr>
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<td>1.5.2</td>
<td>2000</td>
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</tr>
<tr>
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<td>2001</td>
<td>PSF</td>
<td>no</td>
</tr>
</tbody>
</table>
Footnotes:

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

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Date: Sun, 23 Nov 2008 15:54:35 -0800
From: Wim Lewis <wiml@hhhh.org>
Subject: Re: PyCrypto license clarification
To: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
Cc: Wim Lewis <wiml@hhhh.org>
Message-Id: <9D5C3135-7414-47D7-9D41-0AC6C3A84D97@hhhh.org>

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

On November 23, 2008, you wrote:
> Hi Wim,
> 
> I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.
> 
> I understand that you have made contributions to PyCrypto. May I, on your behalf, dedicate to the public domain all your contributions to PyCrypto, with the following notice?
> 
> ________________________________________________________________
> 
> The contents of this file are dedicated to the public domain. To the extent that dedication to the public domain is not available, everyone
Certainly! I think the only code of mine in PyCrypto is the CAST-5 / CAST-128 implementation, which already has a public-domain notice at the top of the file. But I am happy to have that, any any other code of mine that might have wandered in there under an unclear open sourcish license, distributed under the public-domain dedication you quote.

Wim.

-----BEGIN PGP SIGNATURE-----
Version: GnuPG v1.4.6 (Darwin)

iQCVAwUBSSnnAl8UnN8n93LBAQLp/gQAHr7x8AV1mstc2kxEJDWTm26PTAZxMz4B
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=Z5Y9

-----END PGP SIGNATURE-----
From dlitz@dlitz.net Mon May  4 22:49:14 2009
Date: Mon, 4 May 2009 22:49:14 -0400
From: "Dwayne C. Litzenberger" <dlitz@dlitz.net>
To: Joris Bontje <joris@bontje.nl>
Subject: PyCrypto license clarification
Message-ID: <20090505024914.GA9219@rivest.dlitz.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Disposition: inline
User-Agent: Mutt/1.5.16 (2007-06-11)
Status: RO
Content-Length: 2553

Hi Joris,

I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

People often ask me what license PyCrypto is covered by, if it's GPL-compatible, etc. Right now, I'm not really sure what to tell them. The text in the current LICENSE file (quoted below) is not entirely clear on the point of whether distributing modified versions is allowed. (It says "distribute and use", but not "modify".)

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--amk                      (www.amk.ca)

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Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1 1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7

From joris@bontje.nl Tue May  5 03:08:32 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <joris@bontje.nl>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 7AA4B9E5078
for <dwon@rivest.dlitz.net>; Tue,  5 May 2009 03:08:32 -0400 (EDT)
Hi Dwayne,

Thanks for taking over the PyCrypto library and putting in the required effort to keep this going.

I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

You have my full permission to dedicate all my contributions to PyCrypto to the public domain with your suggested notice:

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

Regards,

Joris

Citeren "Dwayne C. Litzenberger" <dlitz@dlitz.net>:

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> 
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> 
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> 
> I understand that you have made contributions to PyCrypto. May I, on your
Excellent! Thank you!

On Tue, May 05, 2009 at 09:08:25AM +0200, joris@bontje.nl wrote:
> Hi Dwayne,
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I was very excited to read that it is now one of the installed libraries for Google AppsEngine!

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--amk

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Regards,

Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Hi Jeethu,
I am the new maintainer of the Python Cryptography Toolkit, and I am working on a new release at http://www.pycrypto.org/.

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

Regards,
- Dwayne

--
Hi Dwayne,

My contribution to pycrypto are very very minimal (The sha256 module, IIRC).
I'd be fine with the public domain license for PyCrypto.

Jeethu Rao

PS: Apologies for the delay in my response.
I don't really check this email address all that often,
please direct any further correspondence to jeethu@jeethurao.com

On Sun, Mar 1, 2009 at 9:54 AM, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> Hi Jeethu,
>
> I am the new maintainer of the Python Cryptography Toolkit, and I am
> working on a new release at http://www.pycrypto.org/.
>
> People often ask me what license PyCrypto is covered by, if it's
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Regards,
-Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

--
Jeethu Rao

Hi Dwayne,<br>My contribution to pycrypto are very very minimal (The sha256 module, llRC). I'd be fine with the public domain license for PyCrypto.<br>Jeethu Rao<br>PS: Apologies for the delay in my response. =A0

--
Jeethu Rao
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---
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=======================================================================

Regards,
- Dwayne

--
Dwayne C. Litzenberger <dlitz@dlitz.net>

Key-signing key - 19E1 1FE8 B3CF F273 ED17 4A24 928C EC13 39C2 5CF7

From markmoraes@yahoo.com Mon Apr 20 19:25:37 2009
X-Maildir-Dup-Checked: Yes
Return-Path: <markmoraes@yahoo.com>
X-Original-To: dwon@rivest.dlitz.net
Delivered-To: dwon@rivest.dlitz.net
Received: from goedel.dlitz.net (unknown [10.159.255.6])
by rivest.dlitz.net (Postfix) with ESMTP id 5D9AE984FDD
for <dwon@rivest.dlitz.net>; Mon, 20 Apr 2009 19:25:37 -0400 (EDT)
Hi Dwayne.

Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
Regards,
Mark.

--- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:

> From: Dwayne C. Litzenberger <dlitz@dlitz.net>
> Subject: PyCrypto license clarification
> To: "Mark Moraes" <moraes@computer.org>
> Date: Saturday, April 18, 2009, 9:14 AM
> Hi Mark,
> I am the new maintainer of the Python Cryptography Toolkit,
> and I am
> working on a new release at http://www.pycrypto.org/.
> People often ask me what license PyCrypto is covered by, if
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======================================================================

Regards,
    - Dwayne

-- Dwayne C. Litzenberger <dlitz@dlitz.net>
Key-signing key   - 19E1
1FE8 B3CF F273 ED17  4A24 928C EC13 39C2 5CF7
Thanks a lot, and don't worry about not responding to previous emails. I do that too much myself. :)

On Mon, Apr 20, 2009 at 04:25:32PM -0700, M Moraes wrote:

> Hi Dwayne.
>
> Sure, the new license sounds fine for all my contributions to PyCrypto, and thanks for taking it on. My apologies for not responding to your previous e-mail.
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> Regards,
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>
> --- On Sat, 4/18/09, Dwayne C. Litzenberger <dlitz@dlitz.net> wrote:
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> > To: "Mark Moraes" <moraes@computer.org>
> > Date: Saturday, April 18, 2009, 9:14 AM
> > Hi Mark,
> >
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--ank

(www.ank.ca)

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

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1.169 netkit-telnet 0.17-41
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<ORGANIZATION> = University of California, Berkeley
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1.170 open-iscsi 2.0.874-5ubuntu2.7

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1.172 guava 24.0

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Doug Lea

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1.173 python-certifi 2018.1.18-2

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.174 sysv-init 2.88dsf 59.3ubuntu2

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,

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tomb - support for clean goroutine termination in Go.

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

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1.177 libcap-ng 0.7.7-3+b1

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1.179 mpdecimal 2.4.2 1

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1.188 libssh 1.8.0-2.1

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1.189 cryptsetup 1.6.6 5ubuntu2.1

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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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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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"""Check the format and dumpability of debian/copyright filenames on stdin.
Usage:
find /tmp/packages -type f -name copyright | ./check_parse_and_dump.py
The --suppress_warnings and --summary flags can be used to make the program
output less verbose.
"""
import argparse
import codecs
import io
import sys
import warnings
from debian import copyright

def parse_args():
parser = argparse.ArgumentParser()
parser.add_argument('--summary', action='store_true',
help='Whether to print only a summary')
parser.add_argument('--suppress_warnings', action='store_true',
help='Whether to suppress copyright warnings')
return parser.parse_args()

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def main():
    args = parse_args()

    if args.suppress_warnings:
        warnings.filterwarnings('ignore', module='debian.copyright')

    problems = {}
    parse_failures = []
    dump_failures = []

    total = 0
    for filename in sys.stdin:
        total += 1
        filename = filename.rstrip()
        with io.open(filename, mode='rt', encoding='utf-8') as f:
            try:
                c = copyright.Copyright(f)
            except Exception as e:
                problems.setdefault((1, 'Parse failures'), []).append((filename, e))
                continue

            try:
                c.dump()
            except Exception as e:
                problems.setdefault((2, 'Dump failures'), []).append((filename, e))

            if not c.header.known_format():
                problems.setdefault((3, 'Unknown format'), []).append((filename, c.header.format))

    invalid_globs = []
globs_with_leading_dot_slash = []
globs_with_trailing_comma = []
globs_with_double_star = []
for p in c.all_files_paragraphs():
    try:
        p.files_pattern()
    except Exception as e:
        invalid_globs.append(e)
for glob in p.files:
    if glob.startswith('./'):
        globs_with_leading_dot_slash.append(glob)
    if glob.endswith(', '):
        globs_with_trailing_comma.append(glob)
    if '**' in glob:
globs_with_double_star.append(glob)
if invalid_globs:
problems.setdefault((4, 'Invalid glob'), []).append(
(filename, invalid_globs))
if globs_with_leading_dot_slash:
problems.setdefault((5, 'Globs with leading ./'), []).append(
(filename, globs_with_leading_dot_slash))
if globs_with_trailing_comma:
problems.setdefault((6, 'Globs with trailing ,'), []).append(
(filename, globs_with_trailing_comma))
if globs_with_double_star:
problems.setdefault((7, 'Globs with **'), []).append(
(filename, globs_with_double_star))
f = codecs.getwriter(encoding='utf-8')(sys.stdout)
for (_, heading), problems in sorted(problems.items()):
f.write('\n%s: (%d / %d)\n' % (heading, len(problems), total))
if not args.summary:
for filename, problem in problems:
f.write(' %s: %s\n' % (filename, problem))

if __name__ == '__main__':
main()
# vim: fileencoding=utf-8
#
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https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Open Source Used In Cisco Ultra Cloud Platform 2019.092263


Start from the Copyright docstring for usage information.

from __future__ import unicode_literals

import collections
import itertools
import io
import re
import warnings
from debian import deb822

_CURRENT_FORMAT = (  
'http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/')

_KNOWN_FORMATS = frozenset([  
_CURRENT_FORMAT,
  # TODO(jsw): Transparently rewrite https:// as http://, at least for this?
  'https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/',
])

class Error(Exception):
    """Base class for exceptions in this module."""

class NotMachineReadableError(Error):
    """Raised when the input is not a machine-readable debian/copyright file."""

class Copyright(object):
    """Represents a debian/copyright file.

A Copyright object contains a Header paragraph and a list of additional Files or License paragraphs. It provides methods to iterate over those paragraphs, in addition to adding new ones. It also provides a mechanism for finding the Files paragraph (if any) that matches a particular filename.

Typical usage:

    with io.open('debian/copyright', 'rt', encoding='utf-8') as f:
        c = copyright.Copyright(f)

        header = c.header
        # Header exposes standard fields, e.g.
print('Upstream name: ', header.upstream_name)
lic = header.license
if lic:
    print('Overall license: ', lic.synopsis)
# You can also retrieve and set custom fields.
header['My-Special-Field'] = 'Very special'

# Find the license for a given file.
paragraph = c.find_files_paragraph('debian/rules')
if paragraph:
    print('License for debian/rules: ', paragraph.license)

# Dump the result, including changes, to another file.
with io.open('debian/copyright.new', 'wt', encoding='utf-8') as f:
    c.dump(f=f)

It is possible to build up a Copyright from scratch, by modifying the
header and using add_files_paragraph and add_license_paragraph. See the
associated method docstrings.

```python
def __init__(self, sequence=None, encoding='utf-8'):
    """Initializer.
    
    :param sequence: Sequence of lines, e.g. a list of strings or a
                     file-like object. If not specified, a blank Copyright object is
                     initialized.
    :param encoding: Encoding to use, in case input is raw byte strings.
                     It is recommended to use unicode objects everywhere instead, e.g.
                     by opening files in text mode.
    
    Raises:
    NotMachineReadableError if 'sequence' does not contain a
    machine-readable debian/copyright file.
    """
    super(Copyright, self).__init__()

    self.__paragraphs = []

    if sequence is not None:
        paragraphs = list(deb822.Deb822.iter_paragraphs(
            sequence=sequence, encoding=encoding))
        if not paragraphs:
            raise NotMachineReadableError('no paragraphs in input')
        self.__header = Header(paragraphs[0])
        for i in range(1, len(paragraphs)):
            p = paragraphs[i]
            if 'Files' in p:
```
p = FilesParagraph(p)
elif 'License' in p:
    p = LicenseParagraph(p)
else:
    warnings.warn('Non-header paragraph has neither "Files"
    ' 'nor "License" fields')
    self.__paragraphs.append(p)
else:
    self.__header = Header()

@property
def header(self):
    """The file header paragraph.""
    return self.__header

@header.setter
def header(self, hdr):
    if not isinstance(hdr, Header):
        raise TypeError('value must be a Header object')
    self.__header = hdr

def all_paragraphs(self):
    """Returns an iterator over all paragraphs (header, Files, License).

    The header (returned first) will be returned as a Header object; file
    paragraphs as FilesParagraph objects; license paragraphs as
    LicenseParagraph objects.

    """
    return itertools.chain([self.header], (p for p in self.__paragraphs))

def __iter__(self):
    """Iterate over all paragraphs

    see all_paragraphs() for more information

    """
    return self.all_paragraphs()

def all_files_paragraphs(self):
    """Returns an iterator over the contained FilesParagraph objects.""
    return (p for p in self.__paragraphs if isinstance(p, FilesParagraph))

def find_files_paragraph(self, filename):
    """Returns the FilesParagraph for the given filename.

    In accordance with the spec, this method returns the last FilesParagraph
    that matches the filename. If no paragraphs matched, returns None.

    """
result = None
for p in self.all_files_paragraphs():
    if p.matches(filename):
        result = p
return result

def add_files_paragraph(self, paragraph):
    """Adds a FilesParagraph to this object.

    The paragraph is inserted directly after the last FilesParagraph (which
    might be before a standalone LicenseParagraph).
    ""
    if not isinstance(paragraph, FilesParagraph):
        raise TypeError('paragraph must be a FilesParagraph instance')

    last_i = -1
    for i, p in enumerate(self.__paragraphs):
        if isinstance(p, FilesParagraph):
            last_i = i
    self.__paragraphs.insert(last_i + 1, paragraph)

def all_license_paragraphs(self):
    """Returns an iterator over standalone LicenseParagraph objects.""
    return (p for p in self.__paragraphs if isinstance(p, LicenseParagraph))

def add_license_paragraph(self, paragraph):
    """Adds a LicenceParagraph to this object.

    The paragraph is inserted after any other paragraphs.
    ""
    if not isinstance(paragraph, LicenseParagraph):
        raise TypeError('paragraph must be a LicenseParagraph instance')
    self.__paragraphs.append(paragraph)

def dump(self, f=None):
    """Dumps the contents of the copyright file.

    If f is None, returns a unicode object. Otherwise, writes the contents
to f, which must be a file-like object that is opened in text mode
(i.e. that accepts unicode objects directly). It is thus up to the
caller to arrange for the file to do any appropriate encoding.
""
    return_string = False
    if f is None:
        return_string = True
    f = io.StringIO()
    self.header.dump(f, text_mode=True)
for p in self.__paragraphs:
    f.write('n')
    p.dump(f, text_mode=True)
if return_string:
    return f.getvalue()

def _single_line(s):
    """Returns s if it is a single line; otherwise raises ValueError."""
    if b'n' in s:
        raise ValueError('must be single line')
    return s

class _LineBased(object):
    """Namespace for conversion methods for line-based lists as tuples."""
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    @staticmethod
    def from_str(s):
        """Returns the lines in s, with whitespace stripped, as a tuple."
        return tuple(v for v in
                      (line.strip() for line in (s or '').strip().splitlines())
                      if v)

    @staticmethod
    def to_str(seq):
        """Returns the sequence as a string with each element on its own line.

        If seq has one element, the result will be on a single line.
        Otherwise, the first line will be blank.
        """
        l = list(seq)
        if not l:
            return None
        def process_and_validate(s):
            s = s.strip()
            if not s:
                raise ValueError('values must not be empty')
            if b'n' in s:
                raise ValueError('values must not contain newlines')
            return s

            if len(l) == 1:
                return process_and_validate(l[0])

        tmp = ["]
for s in l:
    tmp.append(' ' + process_and_validate(s))
return 'n'.join(tmp)

class _SpaceSeparated(object):
    """Namespace for conversion methods for space-separated lists as tuples."""
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    _has_space = re.compile(r'\s')

    @staticmethod
    def from_str(s):
        """Returns the values in s as a tuple (empty if only whitespace)."""
        return tuple(v for v in (s or '').split() if v)

    @classmethod
    def to_str(cls, seq):
        """Returns the sequence as a space-separated string (None if empty)."""
        l = list(seq)
        if not l:
            return None
        tmp = []
        for s in l:
            if cls._has_space.search(s):
                raise ValueError('values must not contain whitespace')
            s = s.strip()
            if not s:
                raise ValueError('values must not be empty')
            tmp.append(s)
        return ' '.join(tmp)

    # TODO(jsw): Move multiline formatting/parsing elsewhere?

def format_multiline(s):
    """Formats multiline text for insertion in a Deb822 field.

    Each line except for the first one is prefixed with a single space. Lines
    that are blank or only whitespace are replaced with '.'
    """
    if s is None:
        return None
    return format_multiline_lines(s.splitlines())

def format_multiline_lines(lines):
    """Same as format_multiline, but taking input pre-split into lines."""
out_lines = []
for i, line in enumerate(lines):
    if i != 0:
        if not line.strip():
            line = '
            line = ' ' + line
        out_lines.append(line)
return '
'.join(out_lines)

def parse_multiline(s):
    """Inverse of format_multiline.

    Technically it can't be a perfect inverse, since format_multiline must
    replace all-whitespace lines with '.'. Specifically, this function:
    - Does nothing to the first line
    - Removes first character (which must be ')') from each proceeding line.
    - Replaces any line that is '.' with an empty line.
    """
    if s is None:
        return None
    return '
'.join(parse_multiline_as_lines(s))

def parse_multiline_as_lines(s):
    """Same as parse_multiline, but returns a list of lines.

    (This is the inverse of format_multiline_lines.)
    """
    lines = s.splitlines()
    for i, line in enumerate(lines):
        if i == 0:
            continue
        if line.startswith(' '):
            line = line[1:]
        else:
            raise ValueError('continued line must begin with " "')
        if line == '.):
            line = ''
        lines[i] = line
    return lines

class License(collections.namedtuple('License', 'synopsis text')):
    """Represents the contents of a License field. Immutable."""
    def __new__(cls, synopsis, text=''):  
        """Creates a new License object."

:param synopsis: The short name of the license, or an expression giving alternatives. (The first line of a License field.)
:param text: The full text of the license, if any (may be None). The
    lines should not be mangled for "deb822"-style wrapping - i.e. they
    should not have whitespace prefixes or single '.' for empty lines.

    return super(License, cls).__new__(
        cls, synopsis=_single_line(synopsis), text=(text or ''))

@classmethod
def from_str(cls, s):
    if s is None:
        return None

    lines = parse_multiline_as_lines(s)
    if not lines:
        return cls('')
    return cls(lines[0], text=\n        join(itertools.islice(lines, 1, None))


def to_str(self):
    return format_multiline_lines([self.synopsis] + self.text.splitlines())

    # TODO(jsw): Parse the synopsis?
    # TODO(jsw): Provide methods to look up license text for known licenses?

def globs_to_re(globs):
    r"""Returns an re object for the given globs.

    Only * and ? wildcards are supported. Literal * and ? may be matched via
    \* and \?, respectively. A literal backslash is matched \. Any other
    character after a backslash is forbidden.

    Empty globs match nothing.

    Raises ValueError if any of the globs is illegal.
    """

    buf = io.StringIO()
    for i, glob in enumerate(globs):
        if i != 0:
            buf.write('|')
        i = 0
        n = len(glob)
        while i < n:
            c = glob[i]
            i += 1
            if c == '*':
                buf.write('.*')
            elif c == '?':
                buf.write('...')
            elif c == '\':
                buf.write('\\')
            else:
                buf.write(c)
    return re.compile(buf.getvalue())
buf.write('.*')
elif c == '?':
    buf.write('.')
elif c == '\':
    if i < n:
        c = glob[i]
        i += 1
    else:
        raise ValueError('single backslash not allowed at end')
if c in r'\?*':
    buf.write(re.escape(c))
else:
    raise ValueError(r'invalid escape sequence: \%s' % c)
else:
    buf.write(re.escape(c))

# Patterns must be anchored at the end of the string. (We use \Z instead
# of $ so that this works correctly for filenames including \n.)
buf.write(r'\Z')
return re.compile(buf.getvalue(), re.MULTILINE | re.DOTALL)

class FilesParagraph(deb822.RestrictedWrapper):
    """Represents a Files paragraph of a debian/copyright file.

    This kind of paragraph is used to specify the copyright and license for a
    particular set of files in the package.
    """

    def __init__(self, data, _internal_validate=True):
        super(FilesParagraph, self).__init__(data)

        if _internal_validate:
            if 'Files' not in data:
                raise ValueError("Files" field required)
            # For the other "required" fields, we just warn for now. Perhaps
            # these should be upgraded to exceptions (potentially protected by
            # a "strict" param).
            if 'Copyright' not in data:
                warnings.warn('Files paragraph missing Copyright field')
            if 'License' not in data:
                warnings.warn('Files paragraph missing License field')

            if not self.files:
                warnings.warn('Files paragraph has empty Files field')

            self.__cached_files_pat = (None, None)
@classmethod
def create(cls, files, copyright, license):
    
    """Create a new FilesParagraph from its required parts.
    
    :param files: The list of file globs.
    :param copyright: The copyright for the files (free-form text).
    :param license: The Licence for the files.
    """
    p = cls(deb822.Deb822(), _internal_validate=False)
    p.files = files
    p.copyright = copyright
    p.license = license
    return p

def files_pattern(self):
    """Returns a regular expression equivalent to the Files globs.
    
    Caches the result until files is set to a different value.
    
    Raises ValueError if any of the globs are invalid.
    ""
    files_str = self['files']
    if self.__cached_files_pat[0] != files_str:
        self.__cached_files_pat = (files_str, globs_to_re(self.files))
    return self.__cached_files_pat[1]

def matches(self, filename):
    """Returns True iff filename is matched by a glob in Files.""
    pat = self.files_pattern()
    return pat.match(filename) is not None

files = deb822RestrictedField('Files', from_str=_SpaceSeparated.from_str,
to_str=_SpaceSeparated.to_str, allow_none=False)
copyright = deb822RestrictedField('Copyright', allow_none=False)

license = deb822RestrictedField('License', from_str=License.from_str, to_str=License.to_str,
allow_none=False)

comment = deb822RestrictedField('Comment')

class LicenseParagraph(deb822RestrictedWrapper):
    """Represents a standalone license paragraph of a debian/copyright file.
    
    Minimally, this kind of paragraph requires a 'License' field and has no
'Files' field. It is used to give a short name to a license text, which can be referred to from the header or files paragraphs.

```python
def __init__(self, data, _internal_validate=True):
    super(LicenseParagraph, self).__init__(data)
    if _internal_validate:
        if 'License' not in data:
            raise ValueError("License" field required)
        if 'Files' in data:
            raise ValueError('input appears to be a Files paragraph')

@classmethod
def create(cls, license):
    """Returns a LicenseParagraph with the given license."""
    if not isinstance(license, License):
        raise TypeError('license must be a License instance')
    paragraph = cls(deb822.Deb822(), _internal_validate=False)
    paragraph.license = license
    return paragraph

# TODO(jsw): Validate that the synopsis of the license is a short name or short name with exceptions (not an alternatives expression). This requires help from the License class.
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str, allow_none=False)

class Header(deb822.RestrictedWrapper):
    """Represents the header paragraph of a debian/copyright file.

    Property values are all immutable, such that in order to modify them you must explicitly set them (rather than modifying a returned reference)."

    def __init__(self, data=None):
        """Initializer.

        :param parsed: A deb822.Deb822 object for underlying data. If None, a new one will be created.
        """
        if data is None:
```
data = deb822.Deb822()
data['Format'] = _CURRENT_FORMAT

if 'Format-Specification' in data:
    warnings.warn('use of deprecated "Format-Specification" field;
        rewriting as "Format"')
    data['Format'] = data['Format-Specification']
del data['Format-Specification']

super(Header, self).__init__(data)

fmt = self.format
if fmt is None:
    raise NotMachineReadableError(
        'input is not a machine-readable debian/copyright')
if fmt not in _KNOWN_FORMATS:
    warnings.warn('format not known: %r' % fmt)

def known_format(self):
    """Returns True iff the format is known."""
    return self.format in _KNOWN_FORMATS

def current_format(self):
    """Returns True iff the format is the current format."""
    return self.format == _CURRENT_FORMAT

format = deb822.RestrictedField(
    'Format', to_str=_single_line, allow_none=False)

upstream_name = deb822.RestrictedField(
    'Upstream-Name', to_str=_single_line)

upstream_contact = deb822.RestrictedField(
    'Upstream-Contact', from_str=_LineBased.from_str,
    to_str=_LineBased.to_str)

source = deb822.RestrictedField('Source')

disclaimer = deb822.RestrictedField('Disclaimer')

comment = deb822.RestrictedField('Comment')

license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str)

copyright = deb822.RestrictedField('Copyright')
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: python-debian
lib/debian/debfile.py
lib/debian/tests/test_debfile.py
Copyright: Copyright (C) 2007-2008 Stefano Zacchiroli <zack@debian.org>
Copyright (C) 2007 Filippo Giunchedi <filippo@debian.org>
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Files:
lib/debian/deprecation.py
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1.193 nginx 0.32

1.193.1 Available under license:

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 */
```

1.194 debianutils 4.8.1.1

1.194.1 Available under license:

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<schizo@debian.org>.

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#ident"@(#)smai:RELEASE-3_2:COPYING,v 1.2 1996/06/14 18:59:10 woods Exp"

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tomb - support for clean goroutine termination in Go.

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---
layout: "docs"
page_title: "Commands: License"
sidebar_current: "docs-commands-license"
description: >
The license command provides datacenter-level management of the Consul Enterprise license.
---

# Consul License

Command: `consul license`

Usage: consul license <subcommand> [options] [args]

The `license` command provides datacenter-level management of the Consul Enterprise license. This was added in Consul 1.1.0.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader if required, so this can be run from any Consul node in a cluster. See the [ACL Guide](/docs/guides/acl.html#operator) for more information.

```text
Usage: consul license <subcommand> [options] [args]
```
This command has subcommands for managing the Consul Enterprise license. Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

Install a new license from a file:

```bash
$ consul license put @consul.license
```

Install a new license from stdin:

```bash
$ consul license put -
```

Install a new license from a string:

```bash
$ consul license put "<license blob>"
```

Retrieve the current license:

```bash
$ consul license get
```

For more examples, ask for subcommand help or view the documentation.

Subcommands:

- `get` Get the current license
- `put` Puts a new license in the datacenter

## put

This command sets the Consul Enterprise license.

Usage: `consul license put [options] LICENSE`

#### API Options

```bash
<%= partial "docs/commands/http_api_options_client" %>
<%= partial "docs/commands/http_api_options_server" %>
```

The output looks like this:

```bash
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
```
Automated Backups
Automated Upgrades
Enhanced Read Scalability
Network Segments
Redundancy Zone
Advanced Network Federation

```
## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

#### API Options

```%> partial "docs/commands/http_api_options_client" %>
```%> partial "docs/commands/http_api_options_server" %>

The output looks like this:

```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

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

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# License - Operator HTTP API

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## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/index.html#blocking-queries), [consistency modes](/api/index.html#consistency-modes), [agent caching](/api/index.html#agent-caching), and [required ACLs](/api/index.html#acls).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` `(string: `")` - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request.
This is specified as a URL query parameter.

### Sample Request

```text
$ curl \\
http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": """,
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```

## Updating the Consul License

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>
The table below shows this endpoint's support for blocking queries, consistency modes, agent caching, and required ACLs.

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` *(string: "")* - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```text
$ curl \
   --request PUT \
   --data @consul.license \ 
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": ["Automated Backups", "Automated Upgrades"],
    "additional": {
      "required": ["operator:write"]
    }
  }
}
```
"Enhanced Read Scalability",
"Network Segments",
"Redundancy Zone",
"Advanced Network Federation"
],
"temporary": false
},
"Warnings": []
}
```

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1.202 activation 1.1

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1.203 gcc 6.3.0-18+deb9u1

1.203.1 Available under license:

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#!/usr/bin/python
#
# Copyright (C) 2013-2018 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([]
# Skip licence files.
'COPYING',
'COPYING.LIB',
'COPYING3',
'COPYING3.LIB',
'LICENSE',
'fdl.texi',
'gpl_v3.texi',
'fdl-1.3.xml',
'gpl-3.0.xml',

# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'lt艄ptions.m4',
'ltXmlAttribute.m4',
'ltXmlAttribute-obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None
def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists(base + '.def')
            and os.path.exists(base + '.tpl')):
            return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True

    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True

    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        ranges = '[0-9][?[-0-9.,\s]\s+and\s+]*[0-9]'
# Non-whitespace characters in a copyright holder's name.
name = '[\w.,-]'

# Matches one year.
self.year_re = re.compile('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile(ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile(
    # 1: 'Copyright (C)', etc.
    '\(\[Cc\]opyright\n\[Cc\]opyrights\s+\[Cc\]\)'\n    '\[Cc\]opyrights\s+\%s\n\[Cc\]opyrights\s+&copy;'\n    '\[Cc\]opyrights+@copyright\{\}\n    \[Cc\]opyright = u"\n    \[@set\[\w-\]+\]'\n    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '\s*\(?+:? ' + ranges + ':?\)'\n    '\[@value\{[^\}]*\}s*\]'\n    # 3: 'by ', if used
    '\(by\s++\)'\n    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '\(' + name + '\s?' + name + '\)*\)'\n    # A regexp for notices that might have slipped by. Just matching
    # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
    # HTML header markers, so check for 'copyright' and two digits.
    self.other_copyright_re = re.compile('copyright.*[0-9][0-9]'\n        re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None
# Goes after the year(s). Could be ',', '.
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year
    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
             or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                'trailing characters in @set: '
                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
# If the next line doesn't look like a proper continuation, 
# assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package 
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')  
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
file, line, match)
    (this_changed, line, next_line) = res
    changed = changed or this_changed

    # Check for copyright lines that might have slipped by.
    elif self.copyright_re.search(line):
        self.errors.report(pathname,
            'unrecognised copyright: %s'
            % line.strip())
        lines.append(line)
        line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open(tmp_pathname, 'w') as file:
            for line in lines:
                file.write(line)
            os.fchmod(file.fileno(), mode)
        if self.use_quilt:
            subprocess.call(['quilt', 'add', pathname])
        os.rename(tmp_pathname, pathname)

    def process_tree(self, tree, filter):
        for (dir, subdirs, filenames) in os.walk(tree):
            # Don't recurse through directories that should be skipped.
            for i in range(len(subdirs) - 1, -1, -1):
                if filter.skip_dir(dir, subdirs[i]):
                    del subdirs[i]

            # Handle the files in this directory.
            for filename in filenames:
                if filter.skip_file(dir, filename):
                    sys.stdout.write('Skipping %s
'
                        % os.path.join(dir, filename))
                else:
                    self.process_file(dir, filename, filter)

    class CmdLine:
        def __init__(self, copyright = Copyright):
            self.errors = Errors()
            self.copyright = copyright(self.errors)
            self.dirs = []
            self.default_dirs = []
            self.chosen_dirs = []
            self.option_handlers = dict()
            self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', 'Quilt add' files before changing them',
    self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
    self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter ()):    
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

        Options:
' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok ():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
if len(self.chosen_dirs) == 0:
    self.o_help()
else:
    for chosen_dir in self.chosen_dirs:
        canon_dir = os.path.join(chosen_dir, '')
        count = 0
        for (dir, filter) in self.dirs:
            if (dir + os.sep).startswith(canon_dir):
                count += 1
                self.copyright.process_tree(dir, filter)
        if count == 0:
            self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
        sys.exit(0 if self.errors.ok() else 1)

#--------------------------------------------------------------------------------------
class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_files = set(['math-68881.h',])
        self.skip_dirs = set(['ada',])

        self.skip_files |= set(['math-68881.h',])
        self.skip_dirs = set(['ada',])

        # Not part of GCC
        'math-68881.h',

        # Better not create a merge nightmare for the GNAT folks.
        'ada',

        # Handled separately.
class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True
        if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_extensions |= set({
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    })

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set({
            # Imported from GLIBC.
            'soft-fp',
        })

class LibPhobosFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set({
            # Source module imported from upstream.
            'object.d',
        })

        self.skip_dirs |= set({
            # Contains sources imported from upstream.
            'core',
            'etc',
            'gc',
            'gcstub',
            'rt',
            'std',
        })

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set({
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        })
self.skip_dirs |= set(
    # Contains automatically-generated sources.
    'html',

    # The testsuite data files shouldn't be changed.
    'data',

    # Contains imported images
    'images',
)

self.own_files |= set(
    # Contains markup around the copyright owner.
    'spine.xml',
)

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)
        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Gerard Jungman')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Intel Corporation')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
# boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
# contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
# intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libc1')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
# libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
# libgo is imported from upstream.
        self.add_dir ('libgomp')
        self.add_dir ('libhsail-rt')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir ('libphobos', LibPhobosFilter())
self.add_dir ('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libphobos',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()
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Developed by:

LLVM Team
University of Illinois at Urbana-Champaign

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<tr>
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<td>lib/interception/mach_override</td>
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(actually AT&T syntax for insns and operands,
adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* 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 DBX 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)))

#ifndef 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)\n
---

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if ((LOG)!=0) fprintf ((FILE), "%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 "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

--------------------------------------------------------------------------

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
Escape single quotes in literal strings from groff's Unicode transform.

If the F register is >0, we'll generate index entries on stderr for

titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index

entries marked with X<> in POD. Of course, you'll have to process the

output yourself in some meaningful fashion.

Avoid warning from groff about undefined register 'F'.

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff
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.TH GPL 7 "2019-05-03" "gcc-9.1.0" "GNU"
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SEE ALSO

`gfdl`(7), `fsf-funding`(7).

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1.204 jetty-webapp 9.4.10.v20180503

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Upstream source https://invisible-island.net/ncurses/ncurses.html
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-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
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1.206 gdbm 1.14.1-6
1.206.1 Available under license:

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1.211 regexp 2.7.2

1.212 mokutil 0.3.0+1538710437.fb6250f
0ubuntu2~18.04.1

1.213 libgcrypt 1.6.5 2ubuntu0.5
1.213.1 Available under license:

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Weak key patches.

GNUPGRmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
Assigns past and future changes.
twoaday@freakmail.de

LIBGCRYPT Simon Josefsson 2002-10-25
Assigns past and future changes to FSF (cipher/{md4,crc}.c, CTR mode,
CTS/MAC flags, self test improvements)
simon@josefsson.org

LIBGCRYPT Moritz Schulte 2003-04-17
Assigns past and future changes.
moritz@g10code.com

GNUTLS Nikolaos Mavrogiannopoulos 2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word 2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in,
src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpi-mul3.S,
mpi/hppa1.1/udiv-qrnnd.S, mpi/hppa1.1/mpi-mul2.S,
mpi/hppa1.1/mpi-mul1.S, mpi/Makefile.am, tests/prime.c,
tests/register.c, tests/ac.c, tests/basic.c, tests/texp.c,
tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)
LIBGCRYPT  Brad Hards  2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex.
added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT  Hye-Shik Chang  2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)

LIBGCRYPT  Werner Dittmann  2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
(mpi/amd64, tests/mpitests.c)

GNUPG  David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
(cipher/camellia-glue.c and related stuff)

LIBGCRYPT  Andrey Jivsov  2010-12-09
Assigns Past and Future Changes
openpgp@brainhub.org
(cipher/ecc.c and related files)

LIBGCRYPT  Ulrich Müller  2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
(Changes to cipher/idea.c and related files)

LIBGCRYPT  Vladimir Serbinenko  2012-04-26
Assigns Past and Future Changes
phcoder@gmail.com
(cipher/serpent.c)

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=====================
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Christian Grothoff <christian@grothoff.org>
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Dmitry Eremin-Solenikov <dbaryshkov@gmail.com>
Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If 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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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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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.

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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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.

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) 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
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c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

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

For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
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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.

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1.225 libseccomp 2.6.7 2

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package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a { @code java.io.FilePermission} object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * { @code java.lang.RuntimePermission},
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 *
 * <p>An important method that must be implemented by each subclass is
 * the { @code implies} method to compare Permissions. Basically,
 * "permission p1 implies permission p2" means that
 * if one is granted permission p1, one is naturally granted permission p2.
 * Thus, this is not an equality test, but rather more of a
 * subset test.
 */
* Permission objects are similar to String objects in that they
  * are immutable once they have been created. Subclasses should not
  * provide methods that can change the state of a permission
  * once it has been created.
  *
  * @see Permissions
  * @see PermissionCollection
  *
  *
  * @author Marianne Mueller
  * @author Roland Schemers
  * @since 1.2
  */

public abstract class Permission implements Guard, java.io.Serializable {

  private static final long serialVersionUID = -563657022231596674L;

  private String name;

  /**
   * Constructs a permission with the specified name.
   *
   * @param name name of the Permission object being created.
   *
   */

  public Permission(String name) {
    this.name = name;
  }

  /**
   * Implements the guard interface for a permission. The
   * [SecurityManager.checkPermission] method is called,
   * passing this permission object as the permission to check.
   * Returns silently if access is granted. Otherwise, throws
   * a SecurityException.
   *
   * @param object the object being guarded (currently ignored).
   *
   * @throws SecurityException
   *        if a security manager exists and its
   *        [checkPermission] method doesn't allow access.
   *
   * @see Guard
   * @see GuardedObject
   * @see SecurityManager#checkPermission
   */
public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}

/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <p>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 *<p>The {@code implies} method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 *
 * @param permission the permission to check against.
 * @return true if the specified permission is implied by this object,
 * false if not.
 */
public abstract boolean implies(Permission permission);

/**
 * Checks two Permission objects for equality.
 * <p>
 * Do not use the {@code equals} method for making access control
 * decisions; use the {@code implies} method.
 *
 * @param obj the object we are testing for equality with this object.
 * @return true if both Permission objects are equivalent.
 */
public abstract boolean equals(Object obj);

/**
 * Returns the hash code value for this Permission object.
 * <p>
 * The required {@code hashCode} behavior for Permission Objects is
 * the following:
 *<ul>
 *  <li>Whenever it is invoked on the same Permission object more than
 *  once during an execution of a Java application, the
 *  <ul>
 *  <li>{@code hashCode} method...
public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a `java.io.FilePermission`,
 * the name will be a pathname.
 *
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 *
 *    <pre>
 *    perm1 = new FilePermission(p1,\"read,write\") ;
 *    perm2 = new FilePermission(p2,\"write,read\") ;
 *    </pre>
 *
 * both return
 * \"read,write\" when the \{ @code getActions \} method is invoked.
 *
 * @return the actions of this Permission.
 */

public abstract String getActions();
public PermissionCollection newPermissionCollection() {
    return null;
}

public String toString() {
    String actions = getActions();
    if (actions == null || actions.isEmpty()) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + ", " + actions + ")";
    }
}

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### xwd v1.0.7

#### xwd utility

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package java.security.acl;

/**
* This interface represents a permission, such as that used to grant
* a particular type of access to a resource.
*
* @author Satish Dharmaraj
* @since 1.1
*
* @deprecated This class is deprecated and subject to removal in a future
* version of Java SE. It has been replaced by [@code java.security.Policy]
* and related classes since 1.2.
@Deprecated(since="9", forRemoval=true)
public interface Permission {

    /**
     * Returns true if the object passed matches the permission represented
     * in this interface.
     *
     * @param another the Permission object to compare with.
     *
     * @return true if the Permission objects are equal, false otherwise
     */
    public boolean equals(Object another);

    /**
     * Prints a string representation of this permission.
     *
     * @return the string representation of the permission.
     */
    public String toString();
}

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ASIS PKCS #11 Cryptographic Token Interface v2.40

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#ifndef __LICENSE_H
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static inline int license_is_gpl_compatible(const char *

#enddef

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Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacom.it>
```
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for the nxt2004 frontend driver

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

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

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M. Welsh, 6 July 1996

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1.249 sqlite 3.29.0

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1.250 xmlsec 1.2.25 1build1

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

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1.251 findutils 4.6.0+git+20170828 2

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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
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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<script type="text/javascript">
var DOCUMENTATION_OPTIONS = { URL_ROOT: '/' ,
VERSION: '1.17',
COLLAPSE_INDEX: false,
FILE_SUFFIX: '.html',
HAS_SOURCE: true,
SOURCE_LINK_SUFFIX: '.txt'
};
</script>
</head>
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.. parsed-literal::

   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
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lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
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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密封.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
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lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_spnego.mech.c

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

.. parsed-literal::

    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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import sys
import re
def warn(fname, ln, msg):
    print '%s: %d: %s ' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln):
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/ *([^ ]*)\ ([^ ]*)? */\ ', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Check if file contains a license.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'[^\/*\- ]*\ /*', '', line)
        line = line.strip()
if not in_comment and '/*' in line:
    (line, sep, comment_part) = line.partition('/*')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('*').lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())
is_license = check_comment(comment, fname, comment_starts_at,
                            code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() != "":
    code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
.. _mitK5license:

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================================
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   :hidden:
   copyright.rst

.. include::  notice.rst

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#include "g_store_credential.h"
#include "g_unseal.h"
#include "g_userok.h"
#include "mechglueP.h"
#include "oid_ops.h"
#include "spnegoP_spnego.h"
#include "spnego_mech.h"
#include "gsdp_pname_to_uid.h"
#include "mglueP.h"
#include "oid_ops.h"
```

The initial implementation of incremental propagation includes the following new or changed files:

- `g_rel_credential.c`
- `mechglue.c`
- `g_store_credential.c`
- `g_unseal.c`
- `g_userok.c`
- `mechglueP.h`
- `oid_ops.c`
- `spnegoP_spnego.h`
- `spnego_mech.c`

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

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

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

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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1.256 libpwquality 1.4.0-2
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Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on \texttt{stderr}, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.

The function \texttt{PQsetNoticeReceiver} sets or examines the current notice receiver for a connection object.
Similarly, `<code class="function">PQsetNoticeProcessor</code>` sets or examines the current notice processor.

```c
typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);
PQnoticeReceiver
PQsetNoticeReceiver(PGconn *conn,
                     PQnoticeReceiver proc,
                     void *arg);

typedef void (*PQnoticeProcessor) (void *arg, const char *message);
PQnoticeProcessor
PQsetNoticeProcessor(PGconn *conn,
                     PQnoticeProcessor proc,
                     void *arg);
```

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

When a notice or warning message is received from the server, or generated internally by `libpq`, the notice receiver function is called. It is passed the message in the form of a `<code class="symbol">PGRES_NONFATAL_ERROR</code>` `PGresult` (This allows the receiver to extract individual fields using `<code class="function">PQresultErrorField</code>`, or obtain a complete preformatted message using `<code class="function">PQresultErrorMessage</code>` or `<code class="function">PQresultVerboseErrorMessage</code>`.) The same void pointer passed to `<code class="function">PQsetNoticeReceiver</code>` is also passed. (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using `<code class="function">PQresultErrorMessage</code>`) and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to `<code class="function">PQsetNoticeProcessor</code>`. (This pointer can be used to access application-specific state if needed.)
The default notice processor is simply:
<pre class="programlisting">
static void
defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
</pre>

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the <code class="structname">PGconn</code> object or <code class="structname">PGresult</code> objects made from it exist. At creation of a <code class="structname">PGconn</code> <code class="structname">PGresult</code>, the <code class="structname">PGconn</code>'s current notice handling pointers are copied into the <code class="structname">PGresult</code> for possible use by functions like <code class="function">PQgetvalue</code>.

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<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html xmlns="http://www.w3.org/1999/xhtml">  
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<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"/>
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<link rel="stylesheet" type="text/css" href="stylesheet.css"/>
<link rev="made" href="pgsql-docs@lists.postgresql.org"/>
<meta name="generator" content="DocBook XSL Stylesheets V1.79.1"/>
<link rel="prev" href="auth-pam.html" title="20.13.PAM Authentication"/>
<link rel="next" href="client-authentication-problems.html" title="20.15.Authentication Problems"/>
</head>
<body>
<div xmlns="http://www.w3.org/TR/xhtml1/transitional" class="navheader">
<table width="100%" summary="Navigation header">
<tr>
<td width="10%" align="left">
<a accesskey="p" href="auth-pam.html" title="20.13.PAM Authentication">Prev</a>
</td>
<td width="10%" align="left">
<a accesskey="u" href="client-authentication.html" title="Chapter20.Client Authentication">Up</a>
</td>
<th width="60%" align="center">
Chapter20.Client Authentication
</th>
<td width="10%" align="right">
<a accesskey="h" href="index.html" title="PostgreSQL 12.1 Documentation">Home</a>
</td>
<td width="10%" align="right">
<a accesskey="n" href="client-authentication-problems.html" title="20.15.Authentication Problems">Next</a>
</td>
</tr>
</table>
<hr/>
</div>

<div class="sect1" id="AUTH-BSD">
<div class="titlepage">
<br class="all">
<h2 class="title" style="clear: both">20.14.BSD Authentication</h2>
</div>
<a id="id-1.6.7.21.2" class="indexterm"></a>
<p>This authentication method operates similarly to <code class="literal">password</code> except that it uses BSD Authentication to verify the password. BSD Authentication is used only to validate user name/password pairs. Therefore the user's role must already exist in the database before BSD Authentication can be used for authentication. The BSD Authentication framework is currently only available on OpenBSD.
</p>

BSD Authentication in <span class="productname">PostgreSQL</span> uses the <code class="literal">auth-postgresql</code> login type and authenticates with the <code class="literal">postgresql</code> login class if that's defined in <code class="filename">login.conf</code>. By default that login class does not exist, and <span class="productname">PostgreSQL</span> will use the default login class.

To use BSD Authentication, the PostgreSQL user account (that is, the operating system user running the server) must first be added to the <code class="literal">auth</code> group. The <code class="literal">auth</code> group exists by default on OpenBSD systems.
1.260 grep 3.3 1

1.260.1 Available under license:

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# Constant-time SSSE3 AES core implementation.
## version 0.1
## By Mike Hamburg (Stanford University), 2009
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1.268 python-dateutil 2.6.1-1

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
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1.271 apt 1.6.11

1.272 perl 5.26.1-6ubuntu0.3

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1.273 flowrate v0.0.0-20140419014527-cca7078d478f

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Other developers who have contributed code are:

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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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#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow',
               '--date=short', '--format=%aN%x09%ad', filename],
               universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-%{1}
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield line, key
    return f()
yield key, line
return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^(?P<prefix>\W*)(\(c\))?\s*\scopyright\s*(\(c\))?\s+\d{4}(\s*-\s+\d{4})?\s+(?P<name>\.+\s*)\s+$', line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
                lines.append(i)
                names.append(d['name'].strip())
        if len(prefix) != 1:
            print 'Not found:', filename
            return
        prefix = list(prefix)[0]

        print filename
        new = iter(new_copyright(filename, names))
        with open(filename, 'w') as f:
            for i, line in enumerate(content):
                if i in lines:
                    for repl in new:
                        print >>f, prefix + repl
                else:
                    print >>f, line,
        pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

    for f in all_files():
        fix_copyright(f)

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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>
template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>") }) %>;

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

int main() {

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Jerasure - A C/C++ Library for a Variety of Reed-Solomon and RAID-6 Erasure Coding Techniques

Revision 2.0: Galois Field backend now links to GF-Complete

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//
//
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
#pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;

} // namespace detail
} // namespace intrusive
} // namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif // #ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
    template <typename T>                                         \
    struct boost_intrusive_has_type_ ## TNAME                   \

```cpp
//
// #define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)  
//      typename INSTANTIATION_NS_PREFIX                                                       
//      boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type                            
//
// #define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME)  
//      INSTANTIATION_NS_PREFIX                                        
//      boost_intrusive_has_type_ ## TNAME< T >::value              
//
// #define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)  
//      template <typename T, typename DefaultType>                    
//      struct boost_intrusive_eval_default_type_ ## TNAME             
//      {                                                              
//          template <typename X>                                       
//          static char test(int, typename X::TNAME*);                  
//          
//          template <typename X>                                       
//          static int test(...);                                       
//          
//          struct DefaultWrap                                          
//          { typedef typename DefaultType::type TNAME; };              
//          
//          static const bool value = (1 == sizeof(test<T>(0, 0)));     
//          
//      };                                                             
//
```
typedef typename                                            
  ::boost::intrusive::detail::eval_if_c                    
    < value                                               
    , ::boost::intrusive::detail::identity<T>             
    , ::boost::intrusive::detail::identity<DefaultWrap>   
  >::type::TNAME type;                                  
};                                                             
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) 
  typename INSTANTIATION_NS_PREFIX 
    boost_intrusive_eval_default_type_##TNAME<T, TIMPL>::type 
  //

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND) 
  template <class T>
  struct TRAITS_PREFIX##_bool
  {
    template<bool Add>
    struct two_or_three {yes_type _[2 + Add];};
    template <class U> static yes_type test(...);
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
    static const std::size_t value = sizeof(test<T>(0));
  };
  
  template <class T>
  struct TRAITS_PREFIX##_bool_is_true
  {
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;
  };
  //

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) 
  template <typename U, typename Signature> 
  class TRAITS_NAME
  {
    private:
    template<Signature> struct helper;
    template<typename T> 
    static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*>(...));
    template<typename T> static ::boost::intrusive::detail::no_type test(...);
    public:
    static const bool bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type);
  };
  //

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```cpp
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
    template <typename Type> \
    struct TRAITS_NAME \
    { \
    struct BaseMixin \
    { \
        void FUNC_NAME(); \
    }; \
    struct Base : public Type, public BaseMixin { Base(); }; \
    template <typename U> \
    static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
    static ::boost::intrusive::detail::yes_type test(...); \
    static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
    }; \
    //

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
    BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)
    \
    BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)
    \
    template <typename Type, class> \
    struct TRAITS_NAME \
    : public TRAITS_NAME##_ignore_signature<Type> 
    
    { \
    //namespace detail 
    //namespace intrusive 
    //namespace boost 

    #include <boost/intrusive/detail/config_end.hpp>

    #endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
```

---

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#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
  #include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
  #pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstddef>

namespace boost { 
namespace container { 
namespace container_detail { 

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_
using boost::move_detail::false_
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_
using boost::move_detail::true_
using boost::move_detail::false_
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_
using boost::move_detail::or_
using boost::move_detail::not_
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template <class FirstType>
struct select1st
{
    typedef FirstType type;

    template <class T>
    const type& operator()(const T& x) const
    { return x.first; }

    template <class T>
    type& operator()(T& x)
    { return const_cast<type&>(x.first); }
};

} //namespace container_detail {
} //namespace container {
} //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif //ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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overrides:
ceph:
  conf:
  client:
    fuse set user groups: true
    fuse default permissions: false
    client acl type: posix_acl
  tasks:
    - workunit:
      timeout: 6h
      clients:
        all:
          - suites/pjd.sh

xxHash Library
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/*

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*
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

// split_path is a small helper for outputting a path name,
// complete with a link to that path:

struct split_path {
    const fs::path& root;
    const fs::path& file;
    split_path(const fs::path& r, const fs::path& f) :
        root(r), file(f) {} 
private:
    split_path& operator=(const split_path&); 
};

std::ostream& operator << (std::ostream& os, const split_path& p) {
    os << "<a href=" << (p.root / p.file).string() << ">
   " << p.file.string() << "</a>";
}
std::string make_link_target(const std::string& s)
{
    // convert an arbitrary string into something suitable
    // for an <a> name:
    std::string result;
    for(unsigned i = 0; i < s.size(); ++i)
    {
        result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
    }
    return result;
}

void bcp_implementation::output_license_info()
{
    std::pair<const license_info*, int> licenses = get_licenses();

    std::map<int, license_data>::const_iterator i, j;
    i = m_license_data.begin();
    j = m_license_data.end();

    std::ofstream os(m_dest_path.string().c_str());
    if(!os)
    {
        std::string msg("Error opening ");
        msg += m_dest_path.string();
        msg += " for output."
        std::runtime_error e(msg);
        boost::throw_exception(e);
    }

    os <<
        "<!DOCTYPE HTML PUBLIC \\
" "-//W3C//DTD HTML 4.0 Transitional//EN"">\n" "<html>
" "<head>
" "<title>Boost Licence Dependency Information"
if(m_module_list.size() == 1)
{
    os << " for " << *(m_module_list.begin());
}

os <<
    "<H1>Boost Licence Dependency Information"
if(m_module_list.size() == 1)
{ 
   os << " for " << *(m_module_list.begin()); 
}

os << 
"</H1>\n"
"<H2>Contents</h2>\n"
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
   os << " <a href="#summary">Licence Summary</a>\n";
   os << " <a href="#details">Licence Details</a>\n";

while(i != j)
{
   // title:
   os << " <A href="#" make_link_target(licenses.first[i->first].license_name)
      "\">" << licenses.first[i->first].license_name << " </a>\n";
   ++i;
}

os << " <a href="#files">Files with no recognised license</a>\n";
" <a href="#authors">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
   os << "Moving to the Boost Software License...\n"
   " <a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>\n"
   " <a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>\n"
   " <a href="#not-to-bsl">Files that can \NOT\ be moved to the Boost Software License</a>\n"
   " <a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>\n"
   " <a href="#copyright">Copyright Holder Information</a>\n";
}

os << 
" <a href="#depend">File Dependency Information</a>\n"
"</pre>";

//
// input Information:
//

os << " <a name="input"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
   os << "The following files were scanned for boost dependencies: <BR>
";
else
   os << "The following Boost modules were checked: <BR>
";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
The Boost path was: `<code>` << m_boost_path.string() << `</code>`;

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):
//
fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex("^[[:blank:]]*#\[[:blank:]]*define\[[:blank:]]*BOOST_VERSION\[[:blank:]]*\(+\d+\)\); boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 100 << "." << version % 100 << "\n";
}

// output each license:
//
i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:
    //
    os << "<a name="\summary"\">\h2>\h2>\n";
    while(i != j)
    {
        // title:
        os << "<H3>" << licenses.first[i->first].license_name << " </H3>\n";
        // license text:
        os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
        // Copyright holders:
        os << "<P>This license is used by " << i->second.authors.size() << " authors and " << i->second.files.size() << " files <a href="/\#" make_link_target(licenses.first[i->first].license_name) ">(see details)</a>";
        os << "</P>\n";
        ++i;
    }
}

// and now the details:
//
i = m_license_data.begin();
j = m_license_data.end();
int license_index = 0;
os << "<a name="details"></a><h2>Licence Details</h2>
while (i != j)
{
  // title:
os <<
    "<H3><A name="""" << make_link_target(licenses.first[i->first].license_name)
    """">"""" << licenses.first[i->first].license_name << """"</H3>"""";
  // license text:
os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
  if(!m_bsl_summary_mode || (license_index >= 3))
  {
    // Copyright holders:
os << "<P>This license is used by the following " << i->second.authors.size() << " copyright holders:";
    std::set<std::string>::const_iterator x, y;
x = i->second.authors.begin();
y = i->second.authors.end();
while(x != y)
{
  os << *x << "<BR>";
  ++x;
}
os << "</P></BLOCKQUOTE>";
  // Files using this license:
os << "<P>This license applies to the following " << i->second.files.size() << " files:";
    std::set<fs::path, path_less>::const_iterator m, n;
m = i->second.files.begin();
n = i->second.files.end();
while(m != n)
{
  os << split_path(m_boost_path, *m) << "<hr>";
  ++m;
}
os << "</P></BLOCKQUOTE>";
  } else
  {
    os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>";
os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>";
  }
++license_index;
++i;
}
Output list of files not found to be under license control:

```
//
// Output list of files with no recognizable licence:
//
os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><br>
"<p>The following " << m_unknown_licenses.size() << " files had no recognizable license information:" << "</p><BLOCKQUOTE><p>
std::set<fs::path, path_less>::const_iterator i2, j2;
i2 = m_unknown_licenses.begin();
j2 = m_unknown_licenses.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";
```

Output list of files with no recognizable copyright holder:

```
//
// Output list of files with no recognizable copyright holder:
//
os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><br>
"<p>The following " << m_unknown_authors.size() << " files had no recognizable copyright holder:" << "</p><BLOCKQUOTE><p>
i2 = m_unknown_authors.begin();
j2 = m_unknown_authors.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
os << "</p></BLOCKQUOTE>";
```

```
if(!m_bsl_summary_mode)
{
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software License</h2><br>
"<p>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:" << "</p><BLOCKQUOTE><p>
```
// Output list of files that could be moved over to the Boost Software License

// os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>
"<p>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:<p><BLOCKQUOTE><p>
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "\n"
        ++i2;
    }
    os << "</p></BLOCKQUOTE>

// Output list of files that can not be moved over to the Boost Software License

// os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>
"<p>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:<p><BLOCKQUOTE><p>
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "\n"
        ++i2;
    }
    os << "</p></BLOCKQUOTE>

// Output list of authors that we need permission for to move to the BSL

// os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2>
"<p>Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>:

    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
              std::ostream_iterator<std::string>(os, "\n"));
    os << "</p></BLOCKQUOTE>

// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</H2><table border="1">\n";
std::map<fs::path, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << " <tr><td" << ad->first << "</td><td">
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td></tr>\n";
    ++ad;
}
os << "</table>\n";

// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</H2><BLOCKQUOTE><pre>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
// if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
if(m_bsl_summary_mode)
{
    bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
    bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
    bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less> :
    const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
while(fi != efi)
{
os << split_path(m_boost_path, *fi);
dep = m_dependencies.find(*fi);
last_dep = m_dependencies.end();
std::set<fs::path, path_less> seen_deps;
if (dep != last_dep)
    while(true)
    {
os << " -> ";
    if(fs::exists(m_boost_path / dep->second))
os << split_path(m_boost_path, dep->second);
else if(fs::exists(dep->second))
os << split_path(fs::path(), dep->second);
else
    os << dep->second.string();
    if(seen_deps.find(dep->second) != seen_deps.end())
    {
os << " <I>(Circular dependency!)</I>";
        break; // circular dependency!!!
    }
    seen_deps.insert(dep->second);
    last_dep = dep;
    dep = m_dependencies.find(dep->second);
    if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
        break;
    }
os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";

os << "</body></html>\n";

if(!os)
{
    std::string msg("Error writing to ");
    msg += m_dest_path.string();
    msg += ":";
    std::runtime_error e(msg);
    boost::throw_exception(e);
}
namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant
            {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_>
            {
                static const bool value = C_;  
            };

    }}}
typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
    bool C
, typename T1
, typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
, typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
, typename T2
>
template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}

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    conf:
        client:
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        - workunit:
            clients:
                all:
                    - fs/misc/acl.sh
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Duktape is an embeddable Javascript engine, with a focus on portability and compact footprint.
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</rdf:Description>

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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; };

struct state { };

template <int i>
struct t { };

using vector = mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) 

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() {
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    Version 2, June 1991

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1.281 metrics-logback 4.0.2

1.282 python-defaults 2.7.15~rc1-1

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This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and
Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final
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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.

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2.5.2  2.5.1  2008  PSF  yes
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2.6    2.5   2008  PSF  yes
2.6.1  2.6   2008  PSF  yes
2.6.2  2.6.1  2009  PSF  yes
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2.6.4  2.6.3  2009  PSF  yes
2.6.5  2.6.4  2010  PSF  yes

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dh_python2, pycompile, pyclean and debpython module:
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1.283 lvm2 1.02.145-4.1ubuntu3.18.04.2

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Full text of gpl-2.0.txt:
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Version 2, June 1991

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1.288 xauth 1.0.10-1

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> So are you saying your word list is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

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The ENABLE package, mainted by MICooper <thegrendel@theriver.com>,

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1.298 zlib 1.2.11
1.298.1 Available under license:

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/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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1.299 pcre 2.56.4 0ubuntu0.18.04.5

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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

-----------------------------

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PCRE JUST-IN-TIME COMPILATION SUPPORT

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STACK-LESS JUST-IN-TIME COMPILER
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1.300 libjpeg 6b

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

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

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

We are required to state that

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REFERENCES

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

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.
The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

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

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

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

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to
Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free 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.

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

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

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

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

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That's all there is to it!

1.305 python-meld3 1.0.2-2

1.305.1 Available under license:

Contributors
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- Tres Seaver, 2006-02-09
- Jorge Puente Sarrn, 2012-11-27

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1.306 powermgmt-base 1.33

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 */

package com.mysql.cj.protocol.x;

import java.util.List;
import com.mysql.cj.protocol.Warning;
import com.mysql.cj.x.protobuf.MysqlxDatatypes.Scalar;

public class Notice implements Warning {

    public static final int XProtocolNoticeFrameType_WARNING = 1;
    public static final int XProtocolNoticeFrameType_SESS_VAR_CHANGED = 2;
    public static final int XProtocolNoticeFrameType_SESS_STATE_CHANGED = 3;

    public static final int SessionStateChanged_CURRENT_SCHEMA = 1;
    public static final int SessionStateChanged_ACCOUNT_EXPIRED = 2;
    public static final int SessionStateChanged_GENERATED_INSERT_ID = 3;
    public static final int SessionStateChanged_ROWSAffected = 4;
    public static final int SessionStateChanged_ROWS_FOUND = 5;
    public static final int SessionStateChanged_ROWS_MATCHED = 6;
    public static final int SessionStateChanged_TRX_COMMitted = 7;
    public static final int SessionStateChanged_TRX_ROLLEDBACK = 9;
    public static final int SessionStateChanged_PRODUCED_MESSAGE = 10;
    public static final int SessionStateChanged_CLIENT_ID_ASSIGNED = 11;
    public static final int SessionStateChanged_GENERATED_DOCUMENT_IDS = 12;

    private int noticeType = 0;
    private int level;
    private long code;
    private String message;
    private Integer paramType = null;
    private String paramName = null;
    private Scalar value = null;
    private List<Scalar> valueList = null;

    /**
     * Constructor for XProtocolNoticeFrameType_WARNING
     * @param level
     * @param code
     * @param message
     */
    public Notice(int level, long code, String message) {
        this.noticeType = XProtocolNoticeFrameType_WARNING;
        this.level = level;
        this.code = code;
        this.message = message;
    }
}
/**
 * Constructor for XProtocolNoticeFrameType_SESS_STATE_CHANGED
 *
 * @param paramType
 *     parameter type
 * @param valueList
 *     values
 */
public Notice(int paramType, List<Scalar> valueList) {
    this.noticeType = XProtocolNoticeFrameType_SESS_STATE_CHANGED;
    this.paramType = paramType;
    this.valueList = valueList;
}

/**
 * Constructor for XProtocolNoticeFrameType_SESS_VAR_CHANGED
 *
 * @param paramName
 *     parameter name
 * @param value
 *     value
 */
public Notice(String paramName, Scalar value) {
    this.noticeType = XProtocolNoticeFrameType_SESS_VAR_CHANGED;
    this.paramName = paramName;
    this.value = value;
}

public int getType() {
    return this.noticeType;
}

@Override
public int getLevel() {
    return this.level;
}

@Override
public long getCode() {
    return this.code;
}

@Override
public String getMessage() {
    return this.message;
}
public Integer getParamType() {
    return this.paramType;
}

public String getParamName() {
    return this.paramName;
}

public Scalar getValue() {
    if (this.value == null && this.valueList != null && !this.valueList.isEmpty()) {
        return this.valueList.get(0);
    }
    return this.value;
}

public List<Scalar> getValueList() {
    return this.valueList;
}

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Version 2.1, February 1999

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MySQL Connector/J 8.0

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#ifndef __java_security_acl_Permission__
#define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
    namespace java
    {
        namespace security
        {
            namespace acl
            {
                class Permission;
            }
        }
    }
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:
    virtual jboolean equals(::java::lang::Object *) = 0;
    virtual ::java::lang::String * toString() = 0;
    static ::java::lang::Class class$;
} __attribute__ ((java_interface));

#endif // __java_security_acl_Permission__

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@enumerate
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@end enumerate

@end iftex
@end info
@end page
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USA.
@end smallexample

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

That's all there is to it!
/*1-
7.;:.?\C.G.K,O!;S"#QY$L*+%+'WWXY-.
/01A
*2Y+S4\n
7806)+=>+29<=+BYDN-EGW67+29<%-KYMO+29RURWG+-YGW-[F`adefge+k/l7m>nDoSpunsw>`\]^_`\nderTe\n`

// DO NOT EDIT THIS FILE - it is machine generated -*. c++ -*. *

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{

namespace security
{

class Permission;

class PermissionCollection;

}
}
}

class java::security::Permission : public java::lang::Object
{

public:

Permission(::java::lang::String *);
virtual void checkGuard(::java::lang::Object *);
virtual jboolean implies(::java::security::Permission *) = 0;
virtual jboolean equals(::java::lang::Object *) = 0;
virtual jint hashCode() = 0;
virtual ::java::lang::String * getName();
virtual ::java::lang::String * getActions() = 0;
virtual ::java::security::PermissionCollection * newPermissionCollection();
virtual ::java::lang::String * toString();

private:

static const jlong serialVersionUID = -563657022231596674LL;
::java::lang::String *__attribute__((aligned(__alignof__(::java::lang::Object)))) name;

public:

static ::java::lang::Class class$;
};
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</listitem>

<listitem>
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</para>
</listitem>
<listitem>
<para>
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/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
* (passed as an `<code>Object</code>`) is the same as this permission.
* 
* @param perm The permission to check for equality
* 
* @return `<code>true</code>` if the specified permission is the same as this one, `<code>false</code>` otherwise
*/
boolean equals (Object perm);

/**
* This method returns this `<code>Permission</code>` as a `<code>String</code>`.
* 
* @return A `<code>String</code>` representing this permission.
*/
String toString();

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* m4/ax_func_which_gethostbyname_r.m4

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

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

That's all there is to it!
/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   adapted to BSD conventions for symbol names and debugging.)
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along with GCC; see the file COPYING3. If not see
<http://www.gnu.org/licenses/>. */

/* 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 DBX 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))

  /* This says how to output an assembler line to define a local common symbol. */

#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 "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

#!/usr/bin/python
#
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#
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# it under the terms of the GNU General Public License as published by 
# the Free Software Foundation; either version 3, or (at your option) 
# any later version.
#
# This script adjusts the copyright notices at the top of source files 
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or 
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in 
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite, 
# while most tests in other directories are just things that failed at some 
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([}
# Skip licence files.
'COPYING',
'COPYING.LIB',
'COPYING3',
'COPYING3.LIB',
'LICENSE',
'fdl.texi',
'gpl_v3.texi',
'fdl-1.3.xml',
'gpl-3.0.xml',

# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)

def get_line_filter(self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None
def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists(base + '.def')
            and os.path.exists(base + '.tpl')):
            return True

        # Skip configure files produced by autoconf
        if filename == 'configure':
            if os.path.exists(base + '.ac'):
                return True
            if os.path.exists(base + '.in'):
                return True

    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True

    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?[-0-9.,\s]\s+and\s]+[0-9]'
# Non-whitespace characters in a copyright holder's name.
name = '[\w,.-]'

# Matches one year.
self.year_re = re.compile ('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # 1: 'Copyright (C)', etc.
    '([Cc]\(\s*\)|\(\s+[Cc]\)|\(\s+[Cc]\s+\)|\(\s+[Cc]\s+\&copy;\))
    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '\(\s*\(\?\:\) + ranges + \.'
    '# value\([\^{}]*\])s*'
    # 3: 'by ', if used
    '(by\s++)'?
    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '(' + name + '(?:\s? + name + *)\)?

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
    re.IGNORECASE)
sself.comment_re = re.compile('#+|[*]+|;+|%+//+@c |dnl ')
sself.holders = { '@copying': '@copying' }
sself.holder_prefixes = set()

# True to 'quilt add' files before changing them.
sself.use_quilt = False

# If set, force all notices to include this year.
sself.max_year = None
# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author(self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)
    return self.parse_year (year)

def year_range(self, years):
    year_list = [self.parse_year (year)
        for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith (@value):
return years

(min_year, max_year) = self.year_range(years)

# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file(dir, filename):
    max_year = max(max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':'
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                      file, line, match)
                        (this_changed, line, next_line) = res
                else:
                    # Leave filtered-out lines alone.
                    if not (line_filter and line_filter.match (line)):
                        match = self.copyright_re.search (line)
                        if match:
                            res = self.update_copyright (dir, filename, filter,
                                                         file, line, match)
changed = changed or this_changed

# Check for copyright lines that might have slipped by.
elif self.other_copyright_re.search (line):
    self.errors.report (pathname,
        'unrecognised copyright: %s'
        % line.strip())
    lines.append (line)
    line = next_line

    # If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    if self.use_quilt:
        subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
                % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = [

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
            self.o_quilt)
self.add_option (('--this-year', 'Add the current year to every notice',
                self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n' % sys.argv[0])
    format = '%-15s %s
' for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
for chosen_dir in self.chosen_dirs:
    canon_dir = os.path.join (chosen_dir, '')
    count = 0
    for (dir, filter) in self.dirs:
        if (dir + os.sep).startswith (canon_dir):
            count += 1
            self.copyright.process_tree (dir, filter)
    if count == 0:
        self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    self.skip_files |= set ([
        # Not part of GCC
        'math-68881.h',
    ])
    self.skip_dirs |= set ([
        # Better not create a merge nightmare for the GNAT folks.
        'ada',
        # Handled separately.
        'testsuite',
    ])
self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
    ])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
    ])

class TestsuiteFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
            ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
            ])

        self.fossilised_files |= set([
            # Old news won't be updated.
            'ONEWS',
            ])
class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([

# Contains no copyright of its own, but quotes the GPL.

'intro.xml',
}

self.skip_dirs |= set (
    # Contains automatically-generated sources.
    'html',

    # The testsuite data files shouldn't be changed.
    'data',

    # Contains imported images
    'images',
)

self.own_files |= set (
    # Contains markup around the copyright owner.
    'spine.xml',
)

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Information Technology Industry Council.')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnatools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libc++', LibCppFilter())
        self.add_dir ('libdecmnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = ['gcc',
                     'libada',
                     'libatomic',
                     'libbacktrace',
                     'libcpp',
                     'libdecnumber',
                     'libgcc',
                     'libgfortran',
                     'libgomp',
                     'libitm',
                     'libmudflap',
                     'libobjc',
                     'libstdc++-v3',
                     ]

GCCCmdLine().main()

/* gnu.classpath.tools.taglets.CopyrightTaglet
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {

return true;
}
public boolean inPackage() {
return true;
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {

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return null;
}
}
}

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*- 

#ifndef __gnu_javax_sound_AudioSecurityManager$Permission__ 
#define __gnu_javax_sound_AudioSecurityManager$Permission__ 

#pragma interface 

#include <java/lang/Enum.h> 
#include <gcj/array.h> 

extern "Java" 
{
namespace gnu 
{
namespace javax 
{
namespace sound 
{
class AudioSecurityManager$Permission; 
}
}
}

class gnu::javax::sound::AudioSecurityManager$Permission : public ::java::lang::Enum 
{

AudioSecurityManager$Permission(::java::lang::String *, jint); 
public:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUMSVALUES;
public:
static ::java::lang::Class class$; 
}; 

#endif // __gnu_javax_sound_AudioSecurityManager$Permission__
This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

**HISTORY -**

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Hutunen (Ari.Hutunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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@heading TERMS AND CONDITIONS

@enumerate 0
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/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
<p>The most important method in this class is <code>implies</code>. This checks whether if one has this permission, then the specified permission is also implied. As a conceptual example, consider the permissions "Read All Files" and "Read File foo". The permission "Read All Files" implies that the caller has permission to read the file foo.</p>

<code>Permission</code>'s must be immutable - do not change their state after creation.

@author Aaron M. Renn (arenn@urbanophile.com)
@see Permissions
@see PermissionCollection
@since 1.1
@status updated to 1.4

public abstract class Permission implements Guard, Serializable {

/**
 * Compatible with JDK 1.1+.
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name) {
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}
/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    string = string.append(' ');
    string = string.append(getActions());
    string = string.append(')');

    if (!(getActions().equals("")))
    {
        string = string.append(','
        string = string.append(getActions());
    }
}
string = string.append(')');
return string.toString();
}
} // class Permission

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Version 2.1, February 1999

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1.311 subversion 1.9.7-4ubuntu1
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#!/usr/bin/env python
#
# check if a file has the proper license in it
#
# USAGE: check-license.py [-C] file1 file2 ... fileN
#
# A 'file' may in fact be a directory, in which case it is recursively searched.
#
# If the license cannot be found, then the filename is printed to stdout.
# Typical usage:
#   $ check-license.py . > bad-files
#
# -C switch is used to change licenses.
# Typical usage:
#   $ check-license.py -C file1 file2 ... fileN
#
import sys, os, re

# Note: Right now, OLD_LICENSE and NEW_LICENSE are the same, because
# r878444 updated all the license blocks. In the future, if we update
# the license block again, change just NEW_LICENSE and use this script.

OLD_LICENSE = "\n
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SH_OLD_LICENSE = re.subn(r'(?m)^ \*', '#', OLD_LICENSE)[0]

# Remember not to do regexp quoting for NEW_LICENSE. Only OLD_LICENSE
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SH_NEW_LICENSE = re.subn(r'(?m)^ \*', '#', NEW_LICENSE)[0]

re_OLD = re.compile(OLD_LICENSE)
re_SH_OLD = re.compile(SH_OLD_LICENSE)
re_EXCLUDE = re.compile(
    r'automatically generated by SWIG'
    + r'|Generated from configure\.in'
    + r'|placed into the public domain'
    )

c_comment_suffices = ('.c', '.java', '.h', '.cpp', '.hw', '.pas')

# Yes, this is an empty tuple. No types that fit in this category uniformly
# have a copyright block.
# Possible types to add here:
# ('.bat', '.py', '.pl', '.in')
sh_comment_suffices = ()
def check_file(fname, old_re, new_lic):
    s = open(fname).read()
    if (not old_re.search(s)
        and not re_EXCLUDE.search(s)):
        print(fname)

def change_license(fname, old_re, new_lic):
    s = open(fname).read()
    m = old_re.search(s)
    if not m:
        print('ERROR: missing old license: %s' % fname)
    else:
        s = s[:m.start()] + new_lic + s[m.end():]
        open(fname, 'w').write(s)
        print('Changed: %s' % fname)

def visit(baton, dirname, dircontents):
    file_func = baton
    for i in dircontents:
        # Don't recurse into certain directories
        if i in ('.svn', '.libs'):
            dircontents.remove(i)
            continue
        extension = os.path.splitext(i)[1]
        fullname = os.path.join(dirname, i)

        if os.path.isdir(fullname):
            continue

        if extension in c_comment_suffices:
            file_func(fullname, re_OLD, NEW_LICENSE)
        elif extension in sh_comment_suffices:
            file_func(fullname, re_SH_OLD, SH_NEW_LICENSE)

    def main():
        file_func = check_file
        if sys.argv[1] == '-C':
            print('Changing license text...')
            del sys.argv[1]
            file_func = change_license

        for f in sys.argv[1:]:
            if os.path.isdir(f):
                baton = file_func
                for dirpath, dirs, files in os.walk(f):
                    visit(baton, dirpath, dirs + files)
else:
    baton = file_func
    dir, i = os.path.split(f)
    visit(baton, dir, i)

if __name__ == '__main__':
    main()

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1.316 secureboot-db 1.4~ubuntu0.18.04.1

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1.320 parted 3.2-20ubuntu0.2

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Written by: Philip Hazel
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mgo - MongoDB driver for Go

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metrics from the pseudo-filesystem proc.

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin %v", n.Plugin)
    } else {
        s += fmt.Sprintf("Option %v in plugin %v", n.Option, n.Plugin)
    }
    return s
}
if n.Severity == unsupported {
    s += "is unsupported by this migration tool in " + n.Version + "."
} else if n.Severity == newdefault {
    s += "is added as a default in " + n.Version + "."
} else {
    s += "is " + n.Severity + " in " + n.Version + "."
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s

const (  // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool
)

// The following statuses are used for selecting/filtering notifications
all = "all" // show all statuses

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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match.go, match_test.go:

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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goproperties - properties file decoder for Go

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BSON library for Go

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{% endpanel %}

{% panel style="info", title="TL;DR" %}
- Copy files to and from Containers in a cluster
{% endpanel %}
# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{ % panel style="warning", title="Install Tar %} 
Copy requires that *tar* be installed in the container image. 
{ % endpanel %}

{ % method % }

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

{ % sample lang="yaml" %}

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

{ % endmethod %}

{ % method % }

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

{ % sample lang="yaml" %}

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

{ % endmethod %}

{ % method % }

## Specify the Container

Specify the Container within a Pod running multiple containers.
- `\`-c <container-name>`

{ sample lang="yaml" %}

```bash
```
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

{ endmethod %}

{ method %}

## Namespaces

Set the Pod namespace by prefixing the Pod name with `\<namespace>\`.

- `\<pod-namespace>\<pod-name>:<path>`

{ sample lang="yaml" %}

```bash
```
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

{ endmethod %}

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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Feb, 2010

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goproperties - properties file decoder for Go

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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q             float32
    Params        map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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type EvaluationMode

package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    }
}
type LicenseManager struct {
  mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
  m := &LicenseManager{
    Self: ref,
    Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
  }
  if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }
  return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
  body := &methods.AddLicenseBody{
    Res: &types.AddLicenseResponse{
    }
  }
  for _, license := range m.Licenses {
    if license.LicenseKey == req.LicenseKey {
      body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
      return body
    }
  }
  m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
    LicenseKey: req.LicenseKey,
    Labels:     req.Labels,
  })
  body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
  return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
  body := &methods.RemoveLicenseBody{
    Res: &types.RemoveLicenseResponse{
    }
  }
  m.Licenses = m.Licenses.Remove(req.LicenseKey)
  body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
  return body
}
for i, license := range m.Licenses {
    if req.LicenseKey == license.LicenseKey {
        m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:,...]
        return body
    }
}
return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        for i := range m.Licenses {
            license := &m.Licenses[i]

            if req.LicenseKey != license.LicenseKey {
                continue
            }

            body.Res = new(types.UpdateLicenseLabelResponse)
            for j := range license.Labels {
                label := &license.Labels[j]

                if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:,...]
                    } else {
                        label.Value = req.LabelValue
                    }
                    return body
                }
            }
            license.Labels = append(license.Labels, types.KeyValue{
                Key:   req.LabelKey,
                Value: req.LabelValue,
            })
            return body
        }
        body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
        return body
    }

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}
func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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1.343 lmdb 0.9.22 1

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1.345 node-wrappy 1.0.2-1

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1.346 libnih 1.0.3-6ubuntu2

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1.348 libiscsi 1.17.0-1.1

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mgo - MongoDB driver for Go

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package spec

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type License struct {
    Name string `json:"name,omitempty"`
    URL   string `json:"url,omitempty"
}

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1.362 apparmor 2.10.95 0ubuntu2.11

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PCRE LICENCE
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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.

THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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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
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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.ubuntu/modules/pam_motd/pam_motd.c

--- pam.ubuntu.org/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}

+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)
    {
        display_file(pamh, "/etc/legal");
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);
Open Source Used In Cisco Ultra Cloud Platform 2019.095347

+ _pam_drop(dir);
+ }
+ }
+ return retval;
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the legal disclaimer only if necessary */
    retval = display_legal(pamh);
    return retval;
+
This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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Julian Seward, Cambridge, UK.
1.366 node-lru-cache 4.1.1-1

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1.367 jcl-over-slf4j 1.7.25

1.368 logging-interceptor 3.12.0
1.369 tcp-wrapper 7.6.q-27
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1.370 iproute 4.15.0 2ubuntu1
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1.371 python-oauthlib 2.0.6-1
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the notice receiver and notice processor. The default behavior is for
the notice receiver to format the notice and pass a string to the notice
processor for printing. However, an application that chooses to provide
its own notice receiver will typically ignore the notice processor
layer and just do all the work in the notice receiver.

The function `PQsetNoticeReceiver` sets or
examines the current notice receiver for a connection object.
Similarly, `PQsetNoticeProcessor` sets or
examines the current notice processor.

typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);

PQnoticeReceiver
PQsetNoticeReceiver(PGconn *conn,
    PQnoticeReceiver proc,
    void *arg);

typedef void (*PQnoticeProcessor) (void *arg, const char *message);

PQnoticeProcessor
PQsetNoticeProcessor(PGconn *conn,
    PQnoticeProcessor proc,
    void *arg);

Each of these functions returns the previous notice receiver or
processor function pointer, and sets the new value. If you supply a
null function pointer, no action is taken, but the current pointer is
returned.

When a notice or warning message is received from the server, or
generated internally by `libpq`, the notice receiver function is called. It is passed the message in the form of
a `PGRES_NONFATAL_ERROR` (This allows the receiver to extract
individual fields using `PQresultErrorField`, or obtain a
complete preformatted message using `PQresultErrorMessage` or `PQresultVerboseErrorMessage`). The same void pointer passed to `PQsetNoticeReceiver` is also passed. (This pointer can be used to access application-specific state
if needed.)
The default notice receiver simply extracts the message (using `<code>PQresultErrorMessage</code> and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to `<code>PQsetNoticeProcessor</code> (This pointer can be used to access application-specific state if needed.)

The default notice processor is simply:

```c
static void defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
```

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the `PGconn` object or `PGresult` objects made from it exist. At creation of a `PGconn` object, the `PGconn`'s current notice handling pointers are copied into the `PGresult` for possible use by functions like `PQgetvalue`.

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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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1.387 apt 1.6.8

1.388 python-fasteners 0.12.0-3
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1.389 blinker 1.4+dfsg1-0.1

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1.390 node-inflight 1.0.6-1
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1.392 libicu 60.2 3ubuntu3

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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
SHAREDLIBFLAGS = -fPIC
SHAREDLIBXXFLAGS = -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/\([^/\\\n\\s]*\\.o:\ \^\A.\^/\1.\^/g" > $@; \
[ -s $@ ] || rm -f $@

%:.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN_DEPS.cc\) $<$ \ 
| sed "%s/\([^/\\\n\\s]*\\.o:\ \^\A.\^/\1.\^/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 =

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"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the
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The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

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If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

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1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

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1.399 jackson-databind 2.9.5

1.399.1 Available under license:

# 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, as well as supported.
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### 1.400 node-combined-stream 0.0.5-1

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1.401 python-setuptools 39.0.1 2
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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Once this change is made in a given copy, it is irreversible for
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subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
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a) Accompany the work with the complete corresponding
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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,
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1.403 python-psutil 5.4.2-1

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1.404 kerberos 1.16 2ubuntu0.1

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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
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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`/src/lib/gssapi`\`, including the following files:

.. parsed-literal::

   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
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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:

.. parsed-literal::

    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/kproplg.c

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  lib/gss_mechs/mech_krb5/et/kdb5_err.c
  lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
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  lib/krb5/kadm5/kadm_host_srv_names.c
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  lib/libgss/g_dsp_status.c
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import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')

for line in sys.stdin:
    check_comment(line, __file__, ln, False, False)
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
    break

# DB2 licenses start with '/*-' and we don't want to change them.
if line != '"' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* ([^ ]*) ( - .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*? */', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at, code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        elif line.strip() != '':
            code_seen = True
ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
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**1.405 apache-log4j 1.2.17**

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1.407 gawk 4.1.4+dfsg-1build1

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Version 2, June 1991

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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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Appendix: How to Apply These Terms to Your New Libraries

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That's all there is to it!

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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
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1.408 sbsigntool 0.6 3.2ubuntu2

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1.414 libbsd 0.8.7-1

1.415 tar 1.29b 2ubuntu0.1
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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 meet all of these conditions:

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
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the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
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Once this change is made in a given copy, it is irreversible for
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subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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

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

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

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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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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
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5. A program that contains no derivative of any portion of the
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creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
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When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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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Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
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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
link a "work that uses the Library" with the Library to produce a
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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arch-tag: d4250e44-a0e0-4ee0-4ab9-2bd74f6eeb27

1.440 readline 8.0.0

1.441 python-click 6.7-3

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1.442 v8 8.10.0~dfsg-2ubuntu0.4

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Tests included here are based on build output generated by the six-speed benchmark suite.

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  assembler-arm.cc, assembler-arm.h, assembler-ia32-inl.h,
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  assembler-x64.cc, assembler-x64.h, assembler-mips-inl.h,
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A. HISTORY OF THE SOFTWARE

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

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

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

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

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Coded by Takuji Nishimura and Makoto Matsumoto.  
This is a faster version by taking Shawn Cokus's optimization,  
Matthe Bellew's simplification, Isaku Wada's real version.  

Before using, initialize the state by using init_genrand(seed)  
or init_by_array(init_key, key_length).

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missing/isinf.c::
missing/isnan.c::
missing/lgamma_r.c::
missing/memcmp.c::
missing/memmove.c::
missing/strchr.c::
missing/strerror.c::
missing/strstr.c::
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L. Peter Deutsch
ghost@aladdin.com

ext/digest/rmd160/rmd160.c::
ext/digest/rmd160/rmd160.h::

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AUTHOR:: Antoon Bosselaers, ESAT-COSIC  
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DATE:: 1 March 1996

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ext/nkf/nkf-utf8/nkf.c::
ext/nkf/nkf-utf8/utf8tbl.c::

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RSpec.describe "bundle licenses" do
  before :each do
    install_gemfile <<-G
      source "file://#{gem_repo1}"
      gem "rails"
      gem "with_license"
    G
  end

  it "prints license information for all gems in the bundle" do
    bundle "licenses"
    loaded_bundler_spec = Bundler.load.specs["bundler"]
    expected = if !loaded_bundler_spec.empty?
      loaded_bundler_spec[0].license
    else
      "Unknown"
    end

    expect(out).to include("bundler: #{expected}")
    expect(out).to include("with_license: MIT")
  end

  it "performs an automatic bundle install" do
    gemfile <<-G
      source "file://#{gem_repo1}"
      gem "rails"
      gem "with_license"
      gem "foo"
    G

    bundle "config auto_install 1"
    bundle :licenses
    expect(out).to include("Installing foo 1.0")
  end
end

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---------------------------

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1.

2.

(a)

(b)

(c)

d)

3.

(a)

(b)
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  extend Gem::Text

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    AFL-3.0
    AGPL-1.0
    AGPL-3.0
    AGPL-3.0-only
    AGPL-3.0-or-later
    AMDPLPA
    AML
    AMPAS
    ANTLR-PD
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DSDP
Dotseqn
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ECL-2.0
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GFDL-1.3-only
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GL2PS
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GPL-1.0+
GPL-1.0-only
GPL-1.0-or-later
GPL-2.0
GPL-2.0+
GPL-2.0-only
GPL-2.0-or-later
GPL-2.0-with-GCC-exception
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JasPer-2.0
LAL-1.2
LAL-1.3
LGPL-2.0
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LGPL-2.0-or-later
LGPL-2.1
LGPL-2.1+
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LGPL-2.1-or-later
LGPL-3.0
LGPL-3.0+
LGPL-3.0-only
LGPL-3.0-or-later
LGPLL
LPL-1.0
LPL-1.02
LPPL-1.0
LPPL-1.1
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MPL-2.0-no-copyleft-exception
MS-PL
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eGenix
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gnuplot
iMatix
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wxWindows
xinetd
xpp
zlib-acknowledgement

).freeze

# exception identifiers
EXCEPTION_IDENTIFIERS = %w(
  389-exception
  Autoconf-exception-2.0
  Autoconf-exception-3.0
  Bison-exception-2.2
  Bootloader-exception
  CLISP-exception-2.0
  Classpath-exception-2.0
  DigiRule-FOSS-exception
  FLTK-exception
  Fawkes-Runtime-exception
  Font-exception-2.0
  GCC-exception-2.0
  GCC-exception-3.1
  LZMA-exception
  Libtool-exception
  Linux-syscall-note
  Nokia-Qt-exception-1.1
  OCCT-exception-1.0
  Qwt-exception-1.0
  WxWindows-exception-3.1
  eCos-exception-2.0
  freertos-exception-2.0
  gnu-javamail-exception
  i2p-gpl-java-exception
  mif-exception
  openvpn-openssl-exception
  u-boot-exception-2.0
)

).freeze
REGEXP = %r{\A
\A
(#{Regexp.union(LICENSE_IDENTIFIERS)}\n+?(\s WITH \s #{Regexp.union(EXCEPTION_IDENTIFIERS)})?\n| #{NONSTANDARD})\n\Z}\n}ox.freeze

def self.match?(license)
  !REGEXP.match(license).nil?
end

def self.suggestions(license)
  by_distance = LICENSE_IDENTIFIERS.group_by do |identifier|
    levenshtein_distance(identifier, license)
  end
  lowest = by_distance.keys.min
  return unless lowest < license.size
  by_distance[lowest]
end

end
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<kou@cozmixng.org>, Ryan Davis <ryand-ruby@zenspider.com>
and Nathaniel Talbott <nathaniel@talbott.ws>.

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* fixed memory leaks (marshal.c, string.c)

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* a patch for numeric.c

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* a patch for proc.c

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  * POP3S support

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  * complex.rb (1.8)
  * e2mmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
  * sync.rb
  * shell/*
  * thwait.rb
  * tracer.rb

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* patch for tool/file2lastrev.rb.

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* a patch for webrick/httpproxy.rb.

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  * net/imap

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* documentation

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* committer
* Ruby itself, most of Ruby.
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  * timeout
  * gdbm
  * sdbm

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* documentation

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* missing/strlcat.c
* missing/strlcpy.c

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* a patch for cgi.rb

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* regex.c was fixed with based on his Emacs21 patch.

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moonwolf
* a patch for REXML, xmlrpc

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Kyosuke Morohashi
* a patch for gem_prelude.rb

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  * generator (1.8)
  * enumerator (1.8)
  * set
  * ipaddr.rb
  * digest/*
  * syslog
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  * logger.rb
* soap/* (1.8)
* wsdl/* (1.8)
* xsd/* (1.8)

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* Did much upon m17n.
* He is the maintainer of:
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  * nkf

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  * gserver (1.8)

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* a patch for socket

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* some of missing/* is based on his book:
  * missing/erf.c
  * missing/lgamma_r.c
  * missing/tgamma.c

OMAE, jun
* a patch for debug.rb

Eugene Ossintsev
* documentation

---

Heesob Park
* a patch for win32/win32.c.

pegacorn
* a patch for instruby.rb

---

Gaston Ramos
* documentation

The Regents of the University of California
* missing/crypt.c
* missing/vsnprintf.c

Sam Roberts
* patch for socket
* documentation

Michal Rokos (michal)
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* He was the maintainer of DJGPP support.

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* a patch for io.c

Marcus Rueckert
* a patch for mkconfig.rb.

Run Paint Run Run
* patch for enc/unicode.c
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* working upon BigDecimal.
* did much upon documentation

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* a patch for tool/ytab.sed

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* documentation

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* documentation

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* patch for net/http and rdoc.

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* documentation

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* tmpdir
* un
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1.449 bash 4.4.18 2ubuntu1.2

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1.453 node validate npm package license

3.0.1-1

1.453.1 Available under license:

```
.packages
.travis.yml

{  
  "name": "validate-npm-package-license",
  "description": "Give me a string and I'll tell you if it's a valid npm package license string",
  "version": "3.0.1",
  "author": "Kyle E. Mitchell <kyle@kemitchell.com> (https://kemitchell.com)",
  "dependencies": { 
    "spdx-correct": "^1.0.0",
    "spdx-expression-parse": "^1.0.0"
  },
  "devDependencies": { 
    "defence-cli": "^1.0.1",
    "replace-require-self": "^1.0.0"
  },
  "keywords": [ 
    "license",
    "npm",
    "package",
    "validation"
  ],
  "license": "Apache-2.0",
  "repository": "kemitchell/validate-npm-package-license.js",
  "scripts": { 
    "test": "defence README.md | replace-require-self | node"
  }
}
```

validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```
javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```
javascript
```
var assert = require('assert');
var validSPDXExpression = {
  validForNewPackages: true,
  validForOldPackages: true,
  spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(valid('Apache 2.0'),
{  
  validForOldPackages: false,
  validForNewPackages: false,
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    ""UNLICENSED", or ' +
    ""SEE LICENSE IN <filename>"",
    'license is similar to the valid expression "Apache-2.0"'
  ]
});
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(valid('(GPL-3.0 OR BSD-2-Clause)'), validSPDXExpression);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
  validForOldPackages: false,
  validForNewPackages: false,
  spdx: true,
```
If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
};
```
unlicensed: true
}
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```SPDX:Apache-2.0

Apache License

Version 2.0, January 2004

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```javascript
var parse = require('spdx-expression-parse');
var correct = require('spdx-correct');

var genericWarning = ('license should be ' +
'a valid SPDX license expression (without "LicenseRef"), ' +
""UNLICENSED", or ' +
""SEE LICENSE IN <filename>"" );

var fileReferenceRE = /^SEE LICENCE IN (.+)$/;

function startsWith(prefix, string) {
```
function usesLicenseRef(ast) {
  if (ast.hasOwnProperty('license')) {
    var license = ast.license;
    return (startsWith('LicenseRef', license) ||
            startsWith('DocumentRef', license));
  } else {
    return (usesLicenseRef(ast.left) ||
            usesLicenseRef(ast.right));
  }
}

module.exports = function(argument) {
  var ast;

  try {
    ast = parse(argument);
  } catch (e) {
    var match
    if (argument === 'UNLICENSED' ||
        argument === 'UNLICENCED') {
      return {
        validForOldPackages: true,
        validForNewPackages: true,
        unlicensed: true
      };
    } else if (match = fileReferenceRE.exec(argument)) {
      return {
        validForOldPackages: true,
        validForNewPackages: true,
        inFile: match[1]
      };
    } else {
      var result = {
        validForOldPackages: false,
        validForNewPackages: false,
        warnings: [genericWarning]
      };
      var corrected = correct(argument);
      if (corrected) {
        return {
          validForOldPackages: true,
          validForNewPackages: true,
          inFile: corrected[1]
        };
      } else {
        return {
          validForOldPackages: false,
          validForNewPackages: false,
          warnings: [genericWarning]
        };
      }
    }
  }
}
result.warnings.push(
    'license is similar to the valid expression "' + corrected + '"'
);
}
return result;
}

if (usesLicenseRef(ast)) {
    return {
        validForNewPackages: false,
        validForOldPackages: false,
        spdx: true,
        warnings: [genericWarning]
    };
} else {
    return {
        validForNewPackages: true,
        validForOldPackages: true,
        spdx: true
    };
}

---

language: "node_js"
node_js:
- "0.10"
- "0.11"
- "0.12"
- "node"
- "iojs"
sudo: false

1.454 shadow 4.5 1ubuntu2

1.454.1 Available under license:

This is Debian GNU/Linux's prepackaged version of the shadow utilities.

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Special thanks are due to Chip Rosenthal for his fine testing efforts;
to Steve Simmons for his work in porting this code to BSD; and to Bill
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1.455 mlocate 0.26-2ubuntu3.1

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AC_DEFUN([gl_CANONICALIZE_LGPL],
  [
    dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
    AC_CHECK_DECLS_ONCE(canonicalize_file_name)
    AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
    if test $ac_cv_func_canonicalize_file_name = no; then
      AC_LIBOBJ(canonicalize-lgpl)
      AC_DEFINE([realpath], [rpl_realpath],
        [Define to a replacement function name for realpath().])
      gl_PREREQ_CANONICALIZE_LGPL
    fi
  ])

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
  [
    AC_CHECK_DECLS_ONCE(canonicalize_file_name)
    AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
    gl_PREREQ_CANONICALIZE_LGPL
  ])

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
  [
    AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
    AC_CHECK_FUNCS_ONCE(getcwd readlink)
  ])

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1.461 jersey-media-json-jackson 2.22

1.462 dash 0.5.8 2.4

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1.464 libunistring 0.9.9 0ubuntu1

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@end example

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1.465 zlib 1.2.8

1.465.1 Available under license:

/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017

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*/
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1.466 json-java 20131018

1.467 curl 7.64.0-4

1.467.1 Available under license:
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: curl
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1.468 libpcre 0.9.5-6.1+b11

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1.470 apk-tools 2.10.3-r1

1.471 musl 1.1.19-r11

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1.472 tre 1.1.20 r4

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1.473 grafana 6.5.1

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1.479 libunwind 1.2.1-8

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1.480 pciutils 3.3.1-1.1ubuntu1.3

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1.482 jackson-jaxrs-json-provider 2.9.5

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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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1.484 logback 1.2.3

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<title>License</title>
<link rel="stylesheet" type="text/css" href="css/common.css" />
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1.485 pam 1.1.8 3.2ubuntu2.1

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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 */

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* @version 3.0 (December 2000)
* 
* Optimised ANSI C code for the Rijndael cipher (now AES)
* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
* @author Paulo Barreto <paulo.barreto@terra.com.br>
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*/

#ifdef HAVE_SETREGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifdef HAVE_SETRESID
int setresuid(uid_t, uid_t, uid_t);
#endif
/* OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp */

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef __COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

1.489 procps 3.3.12-3ubuntu1.1

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1.490 libicu 63.1-6

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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,-Bslnic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICFLAGS) -o $@ $(srcdir)/%.c

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$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.S(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) $< \n| sed "\s/\(^\*\)\(.o\)\[ :\]*/\1.o $@ : /g" > $@; \n[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed "\s/\(^\*\)\(.o\)\[ :\]*/\1.o $@ : /g" > $@; \n[ -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
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
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1.491 websocket-client 0.44.0-0ubuntu2

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1.493 tomcat-util-scan 9.0.13

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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ordinary General Public License).

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

<one line to give the library's name and a brief idea of what it does.>
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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!
*uganda.txt* For Vim version 8.1. Last change: 2018 May 17

VIM REFERENCE MANUAL by Bram Moolenaar

*uganda* *Uganda* *copying* *copyright* *license*
SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are 
encouraged to make a donation for needy children in Uganda. Please see [kcc] 
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for 
features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see 
[manual-copyright].

=== begin of license ===

VIM LICENSE
I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
   a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.
   b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.
   c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.
   d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:
      - The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
      - You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them
available to him.
- You clearly describe in the distribution how to contact you. This
  contact information must remain valid for at least three years
  after last distributing the corresponding modified Vim, or as long
  as possible.
  e) When the GNU General Public License (GPL) applies to the changes,
  you can distribute the modified Vim under the GNU GPL version 2 or
  any later version.
3) A message must be added, at least in the output of the ":version"
  command and in the intro screen, such that the user of the modified Vim
  is able to see that it was modified. When distributing as mentioned
  under 2)e) adding the message is only required for as far as this does
  not conflict with the license used for the changes.
4) The contact information as required under 2)a) and 2)d) must not be
  removed or changed, except that the person himself can make
  corrections.

III) If you distribute a modified version of Vim, you are encouraged to use
the Vim license for your changes and make them available to the
maintainer, including the source code. The preferred way to do this is
by e-mail or by uploading the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a
context diff will do. The e-mail address to be used is
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim
sources, parts of it or from a modified version. You may use this
license for previous Vim releases instead of the license that they came
with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this
  file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
  [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
  A few minor changes have been made since he checked it, but that should not
  make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits
  further distribution to the GNU GPL. Also when you didn't actually change
  anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.
There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for
another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.
Others: Transfer to one of these accounts if possible:
   Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
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vim:tw=78:ts=8:noet:ft=help:norl:
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" Vim syntax file
" Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001

" quit when a syntax file was already loaded
if exists("b:current_syntax")
    finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end_file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match  psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString    start=+" skip=+" end=+" contained
Some of the attributes covered by attUnquotString and attQuotString:
- architecture category_tag control_directory copyright
- create_date description directory file_permissions install_source
- install_type location machine_type mod_date number os_name os_release
- os_version pose_as_os_name pose_as_os_release readme revision
- share_link title vendor_tag

These regions are defined in attempt to do syntax checking for some
of the attributes.

These regions are defined in attempt to do syntax checking for some
of the attributes.

These regions are defined in attempt to do syntax checking for some
of the attributes.
Define the default highlighting.

Only when an item doesn't have highlighting yet

<table>
<thead>
<tr>
<th>Link Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>psfObject</td>
<td>Statement</td>
</tr>
<tr>
<td>psfAttrib</td>
<td>Type</td>
</tr>
<tr>
<td>psfQuotString</td>
<td>String</td>
</tr>
<tr>
<td>psfObjTag</td>
<td>Identifier</td>
</tr>
<tr>
<td>psfAttAbbrev</td>
<td>PreProc</td>
</tr>
<tr>
<td>psfObjTags</td>
<td>Identifier</td>
</tr>
<tr>
<td>psfComment</td>
<td>Comment</td>
</tr>
</tbody>
</table>

Long descriptions and copyrights confuse the syntax highlighting, so force vim to backup at least 100 lines before the top visible line looking for a sync location.

let b:current_syntax = "psf"

1.495 helpers 0.5.0-2

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Upstream-Name: incremental
Upstream-Contact: Amber Brown <hawkowl@twistedmatrix.com>
Source: https://github.com/hawkowl/constantly

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1.497 ca-certificates 20190108-r0

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1.498 commons-lang 3.1

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

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Ackeret, Matt
Adler, Mark
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Anderson, Jamie
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Benali, Elias
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Jorge, Joel Pele
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Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
1.500 node-mute-stream 0.0.7-1

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1.501 postgresql 10.10-1.pgdg18.04+1

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The function `PQsetNoticeReceiver` sets or examines the current notice receiver for a connection object. Similarly, `PQsetNoticeProcessor` sets or examines the current notice processor.

```c
typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);
PQnoticeReceiver
PQsetNoticeReceiver(PGconn *conn,
                     PQnoticeReceiver proc,
                     void *arg);

typedef void (*PQnoticeProcessor) (void *arg, const char *message);
PQnoticeProcessor
PQsetNoticeProcessor(PGconn *conn,
                      PQnoticeProcessor proc,
                      void *arg);
```

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

When a notice or warning message is received from the server, or generated internally by `libpq`, the notice receiver function is called. It is passed the message in the form of a `PGRES_NONFATAL_ERROR` message. (This allows the receiver to extract individual fields using `PQresultErrorField`, or obtain a complete preformatted message using `PQresultErrorMessage`.) The same void pointer passed to `PQsetNoticeReceiver` is also passed. (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using `PQresultErrorMessage`) and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning.
message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to `<code class="function">PQsetNoticeProcessor</code>`. (This pointer can be used to access application-specific state if needed.)

```c
static void
defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
```

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the `PGconn` object or `PGresult` objects made from it exist. At creation of a `PGresult`, the `PGconn`'s current notice handling pointers are copied into the `PGresult` for possible use by functions like `function` `PQgetvalue` `code`.

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the `PGconn` object or `PGresult` objects made from it exist. At creation of a `PGresult`, the `PGconn`'s current notice handling pointers are copied into the `PGresult` for possible use by functions like `function` `PQgetvalue` `code`.

The default notice processor is simply:

```c
static void
defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
```

The default notice processor is simply:

```c
static void
defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
```
1.502 commons-daemon 1.1.0

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1.503 httpparser 2.7.1-2

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1.504 ruby-defaults 2.5.1

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1.506 node-gyp 3.6.2-1ubuntu1

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1.507 open-ldap 2.4.47+dfsg-3+deb10u1

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1.513 dash 0.5.10.2 5

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1.515 node-lockfile 0.4.1-1

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1.516 debianutils 4.8.4

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1.517 kubernetes-client 4.6.3

1.518 audit 2.4.5 1ubuntu2.1

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin string
    Option string
    Severity string // 'deprecated', 'removed', or 'unsupported'
}
func (n *Notice) ToString() string {
    s :="
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "," 
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "," 
    } else {
        s += "is " + n.Severity + " in " + n.Version + ","
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(`It is replaced by "%v" `, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const (  
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
    the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present
    in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)

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The functions in this package implement the behaviour specified in
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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q float32
    Params map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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mgo - MongoDB driver for Go

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Paul Borman <borman@google.com>
tomb - support for clean goroutine termination in Go.

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

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package simulator

import {
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
}

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
             Key: "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         },
        },
        {Key: "feature",
         Value: types.KeyValue{
             Key: "dvs",
             Value: "vSphere Distributed Switch",
         },
        },
    }
}

type LicenseManager struct {
    mo.LicenseManager
}
func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense
    }
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }
    return body
}
func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

        for i := range m.Licenses {
            license := &m.Licenses[i]

            if req.LicenseKey != license.LicenseKey {
                continue
            }

            body.Res = new(types.UpdateLicenseLabelResponse)

            for j := range license.Labels {
                label := &license.Labels[j]

                if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                    } else {
                        label.Value = req.LabelValue
                    }
                    return body
                }
            }

            license.Labels = append(license.Labels, types.KeyValue{ 
                Key:   req.LabelKey,
                Value: req.LabelValue,
            })

            return body
        }

    body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }
}
// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
    if req.EntityId != Map.content().About.InstanceUuid {
        id := types.ManagedObjectReference{
            Type: "HostSystem",
            Value: req.EntityId,
        }

        if Map.Get(id) == nil {
            return body
        }
    }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    {
        EntityId: req.EntityId,
        AssignedLicense: EvalLicense,
    },
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

{% panel style="success", title="Providing Feedback" %}
**Provide feedback at the [survey](https://www.surveymonkey.com/r/JH35X82)**
{% endpanel %}

{% panel style="info", title="TL;DR" %}
- Copy files to and from Containers in a cluster
{% endpanel %}

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{% panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

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// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}
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Protocol Buffers for Go with Gadgets

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

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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match.go, match_test.go:

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* golang.org/x/mod/module - https://github.com/golang/mod

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// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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1.525 luajit 2.1.0

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Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on `stderr`, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.

The function `PQsetNoticeReceiver()` allows the application to specify its own notice receiver function.
<a id="id-1.7.3.19.5.3" class="indexterm"></a> sets or examines the current notice receiver for a connection object. Similarly, <code class="function">PQsetNoticeProcessor</code><a id="id-1.7.3.19.5.5" class="indexterm"></a> sets or examines the current notice processor.

```c
typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);
PQnoticeReceiver
PQsetNoticeReceiver(PGconn *conn,
  PQnoticeReceiver proc,
  void *arg);
```

typedef void (*PQnoticeProcessor) (void *arg, const char *message);

```c
PQnoticeProcessor
PQsetNoticeProcessor(PGconn *conn,
  PQnoticeProcessor proc,
  void *arg);
```

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

When a notice or warning message is received from the server, or generated internally by <span class="application">libpq</span>, the notice receiver function is called. It is passed the message in the form of a <code class="symbol">PGRES_NONFATAL_ERROR</code> <code class="structname">PGresult</code>. (This allows the receiver to extract individual fields using <code class="function">PQresultErrorField</code>, or obtain a complete preformatted message using <code class="function">PQresultErrorMessage</code> or <code class="function">PQresultVerboseErrorMessage</code>.) The same void pointer passed to <code class="function">PQsetNoticeReceiver</code> is also passed. (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using <code class="function">PQresultErrorMessage</code>) and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to <code class="function">PQsetNoticeProcessor</code>. (This pointer can be used to access application-specific state if needed.)

The default notice processor is simply:

```c
defaultNoticeProcessor(void *arg, const char *message) {
```
fprintf(stderr, "\%s\", message);
}

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the
<code class="structname">PGconn</code> object or <code class="structname">PGresult</code> objects made from it exist. At creation of a <code class="structname">PGresult</code>, the <code class="structname">PGconn</code>'s current notice handling pointers are copied into the <code class="structname">PGresult</code> for possible use by functions like <code class="function">PQgetvalue</code>.

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This regular expression package was originally developed by Henry Spencer.

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1.544 tomcat-jdbc 9.0.13

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**1.546 python-setuptools 39.0.1-2**

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@end enumerate

@end section

@heading END OF TERMS AND CONDITIONS

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state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@example
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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@end example

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

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

@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end example

The hypothetical commands @samp{show w} and @samp{show c} should show
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1.555 frebidi 0.19.7 2

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1.556 dumb-init 1.2.2-1.1

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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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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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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
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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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
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 engineering for debugging such modifications.
which the executable runs, unless that component itself accompanies
the executable.

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

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

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(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.

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

If distribution of object code is made by offering access to copy
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**1.572 free-type 2.8.1 2ubuntu2**

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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

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DES core in libhcrypto

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D3DES (V5.09) -

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

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1.592 jetty-io 9.4.10.v20180503

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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
lib/gssapi/mechglue/g_dsp_name.c
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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
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
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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
        if line != '' and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'/\* (?[^ \]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
in_comment = False
code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
  # Strip out whitespace and comments contained within a line.
  if not in_comment:
    line = re.sub(r'\*/.*?\*/', '', line)
  line = line.strip()
  if not in_comment and '/*' in line:
    (line, sep, comment_part) = line.partition('/*')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
  elif in_comment and '*/' not in line:
    comment.append(line.lstrip('*').lstrip())
  elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())
  is_license = check_comment(comment, fname, comment_starts_at, code_seen, nonlicense_seen)
  nonlicense_seen = nonlicense_seen or not is_license
  in_comment = False
  elif line.strip() != '':
    code_seen = True
    ln += 1

for fname in sys.argv[1:]:
  if fname.startswith('./'):
    fname = fname[2:]
  f = open(fname)
  lines = f.readlines()
  f.close()
  check_file(lines, fname)

/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
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    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
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    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
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.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/prop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
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1.600 python-service-identity 16.0.0-2

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1.601 tomcat storeconfig 9.0.13

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    Name string `json:"name,omitempty"
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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
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Please keep the list sorted.

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
LicenseKey: "00000-00000-00000-00000-00000",
EditionKey: "eval",
Name: "Evaluation Mode",
Properties: []types.KeyAnyValue{
    {Key: "feature",
     Value: types.KeyValue{
         Key: "serialuri:2",
         Value: "Remote virtual Serial Port Concentrator",
     },
    },
    {Key: "feature",
     Value: types.KeyValue{
         Key: "dvs",
         Value: "vSphere Distributed Switch",
     },
    },
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
}
func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }
    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        for i := range m.Licenses {
            license := &m.Licenses[i]
            if req.LicenseKey != license.LicenseKey {
                continue
            }
            body.Res = new(types.UpdateLicenseLabelResponse)
            for j := range license.Labels {
                label := &license.Labels[j]
                if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
                    } else {
                        label.Value = req.LabelValue
                    }
                }
            }
            return body
        }
    }
    return body
}
license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type: "HostSystem",
                Value: req.EntitySystem,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
        {
            EntityId: req.EntityId,
            AssignedLicense: EvalLicense,
        },
    }

    return body
}
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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

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Tomb - support for clean goroutine termination in Go.

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mgo - MongoDB driver for Go

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PACKAGE

package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in
http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q    float32
    Params  map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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match.go, match_test.go:

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string  // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s :="
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v"`, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v"`, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
    }
    return s
}
if n.Additional != "" {
  s += " " + n.Additional
}
return s
}

const {
  // The following statuses are used to indicate the state of support/deprecation in a given release.
  deprecated = "deprecated" // deprecated, but still completely functional
  ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
  removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in the Corefile
  newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
  unsupported = "unsupported" // the plugin/option is not supported by the migration tool

  // The following statuses are used for selecting/filtering notifications
  all = "all" // show all statuses
}

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Protocol Buffers for Go with Gadgets

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

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```
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```

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

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Mark Lord (mlord@pobox.com)

1.604 node spdx license ids 1.2.2-1
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'use strong';

const test = require('tape');

const expected = require('./spdx-license-ids.json');

function runTest(description, main) {
  test(description, t => {
    t.deepEqual(main, expected, 'should return an array of SPDX license identifiers.');
    t.end();
  });
}
runTest('require(\'spdx-license-ids\')', require('.'));
global.window = {};
require('./' + require('./bower.json').main);
runTest('window.spdxLicenseIds', global.window.spdxLicenseIds);
root = true
[*]
charset = utf-8
end_of_line = lf
indent_style = space
indent_size = 2
insert_final_newline = true
trim_trailing_whitespace = true
[*.md]
trim_trailing_whitespace = false
{
"name": "spdx-license-ids",
"description": "A list of SPDX license identifiers",
"keywords": [
"spdx",
"license",
"licenses",
"id",
"identifier",
"identifiers",
"json",
"array",
"oss"
],
"main": "spdx-license-ids-browser.js",
"moduleType": "globals",
"homepage": "https://github.com/shinnn/spdx-license-ids",
"repository": {
"type": "git",
"url": "git://github.com/shinnn/spdx-license-ids.git"
},
"authors": [
"Shinnosuke Watanabe (https://github.com/shinnn)"
],
"license": "Unlicense",
"ignore": [
"**/.*",
"*.json",

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"*.js",
"bower_components",
"coverage",
"node_modules"
]
}
[
"Glide",
"Abstyles",
"AFL-1.1",
"AFL-1.2",
"AFL-2.0",
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"AFL-3.0",
"AMPAS",
"APL-1.0",
"Adobe-Glyph",
"APAFML",
"Adobe-2006",
"AGPL-1.0",
"Afmparse",
"Aladdin",
"ADSL",
"AMDPPLA",
"ANTLR-PD",
"Apache-1.0",
"Apache-1.1",
"Apache-2.0",
"AML",
"APSL-1.0",
"APSL-1.1",
"APSL-1.2",
"APSL-2.0",
"Artistic-1.0",
"Artistic-1.0-Perl",
"Artistic-1.0-cl8",
"Artistic-2.0",
"AAL",
"Bahyph",
"Barr",
"Beerware",
"BitTorrent-1.0",
"BitTorrent-1.1",
"BSL-1.0",
"Borceux",
"BSD-2-Clause",
"BSD-2-Clause-FreeBSD",
"BSD-2-Clause-NetBSD",

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"BSD-3-Clause",
"BSD-3-Clause-Clear",
"BSD-4-Clause",
"BSD-Protection",
"BSD-Source-Code",
"BSD-3-Clause-Attribution",
"0BSD",
"BSD-4-Clause-UC",
"bzip2-1.0.5",
"bzip2-1.0.6",
"Caldera",
"CECILL-1.0",
"CECILL-1.1",
"CECILL-2.0",
"CECILL-2.1",
"CECILL-B",
"CECILL-C",
"ClArtistic",
"MIT-CMU",
"CNRI-Jython",
"CNRI-Python",
"CNRI-Python-GPL-Compatible",
"CPOL-1.02",
"CDDL-1.0",
"CDDL-1.1",
"CPAL-1.0",
"CPL-1.0",
"CATOSL-1.1",
"Condor-1.1",
"CC-BY-1.0",
"CC-BY-2.0",
"CC-BY-2.5",
"CC-BY-3.0",
"CC-BY-4.0",
"CC-BY-ND-1.0",
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"GFDL-1.2",
"GFDL-1.3",
"GPL-1.0",
"GPL-2.0",
"GPL-3.0",
"LGPL-2.1",
"LGPL-3.0",
"LGPL-2.0",
"gplot",
"gSOAP-1.3b",
"HaskellReport",
"HPND",
"IBM-pibs",
"IPL-1.0",
"ICU",
"ImageMagick",
"imath",
"Imlib2",
"IJG",
"Info-ZIP",
"Intel-ACPI",
"Intel",
"Interbase-1.0",
"IPA",
"ISC",
"JasPer-2.0",
"JSON",
"LPPL-1.0",
"LPPL-1.1",
"LPPL-1.2",
"LPPL-1.3a",
"LPPL-1.3c",
"Latex2e",
"BSD-3-Clause-LBNL",
"Leptonica",
"LGPLLLR",
"Libpng",
"libstiff",
"LAL-1.2",
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"LiLiQ-P-1.1",
"LiLiQ-Rplus-1.1",
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"LPL-1.0"
"OLDAP-2.4",
"OLDAP-2.5",
"OLDAP-2.6",
"OLDAP-2.7",
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"OML",
"OPL-1.0",
"OSL-1.0",
"OSL-1.1",
"OSL-2.0",
"OSL-2.1",
"OSL-3.0",
"OpenSSL",
"OSET-PL-2.1",
"PHP-3.0",
"PHP-3.01",
"Plexus",
"PostgreSQL",
"psfrag",
"psutils",
"Python-2.0",
"QPL-1.0",
"Qhull",
"Rdisc",
"RPSL-1.0",
"RPL-1.1",
"RPL-1.5",
"RHeCos-1.1",
"RSCPL",
"RSA-MD",
"Ruby",
"SAX-PD",
"Saxpath",
"SCEA",
"SWL",
"SMPPL",
"Sendmail",
"SGI-B-1.0",
"SGI-B-1.1",
"SGI-B-2.0",
"OFL-1.0",
"OFL-1.1",
"SimPL-2.0",
"Sleepycat",
"SNIA",
"Spencer-86",
"Spencer-94",
"Spencer-99"
"SMLNJ",
"SugarCRM-1.1.3",
"SISSL",
"SISSL-1.2",
"SPL-1.0",
"Watcom-1.0",
"TCL",
"Unlicense",
"TMate",
"TORQUE-1.1",
"TOSL",
"Unicode-TOU",
"UPL-1.0",
"NCSA",
"Vim",
"VOSTROM",
"VSL-1.0",
"W3C-19980720",
"W3C",
"Wsuipa",
"Xnet",
"X11",
"Xerox",
"XFree86-1.1",
"xinetd",
"xpp",
"XSkat",
"YPL-1.0",
"YPL-1.1",
"Zed",
"Zend-2.0",
"Zimbra-1.3",
"Zimbra-1.4",
"Zlib",
"zlib-acknowledgement",
"ZPL-1.1",
"ZPL-2.0",
"ZPL-2.1",
"BSD-3-Clause-No-Nuclear-License",
"BSD-3-Clause-No-Nuclear-Warranty",
"BSD-3-Clause-No-Nuclear-License-2014",
"eCos-2.0",
"GPL-2.0-with-autoconf-exception",
"GPL-2.0-with-bison-exception",
"GPL-2.0-with-classpath-exception",
"GPL-2.0-with-font-exception",
"GPL-2.0-with-GCC-exception",
"GPL-3.0-with-autoconf-exception"
"GPL-3.0-with-GCC-exception",
"StandardML-NJ",
"WXwindows"
]
'use strong';

const { cyan, green } = require('chalk');
const getSpdxLicenseIds = require('get-spdx-license-ids');
const loudRejection = require('loud-rejection');
const rimrafPromise = require('rimraf-promise');
const stringifyObject = require('stringify-object');
const writeFileAtomically = require('write-file-atomically');

const pkg = require('./package.json');

loudRejection();

rimrafPromise(pkg.name + '*')
  .then(() => getSpdxLicenseIds())
  .then(ids => {
    return {
      [pkg.main]: JSON.stringify(ids, null, '  ') + '
',
      [require('./bower.json').main]: `window.spdxLicenseIds = ${stringifyObject(ids, {indent: '  '})};\n`;
    });
  })
  .then(files => {
    return Promise.all(Object.keys(files).map(filename => {
      console.log('Writing... ' + cyan(filename));
      return writeFileAtomically(filename, files[filename]);
    }));
  })
  .then(() => console.log(green('Build completed.'));
* text=auto

window.spdxLicenseIds = [
  'Glide',
  'Abstyles',
  'AFL-1.1',
  'AFL-1.2',
  'AFL-2.0',
  'AFL-2.1',
  'AFL-3.0',
  'AMPAS',
  'APL-1.0',
  'Adobe-Glyph',
  'APAFML',
  'Adobe-2006',
  'AGPL-1.0',
  'Afmparse',
  'GPL-3.0-with-GCC-exception',
  'StandardML-NJ',
  'WXwindows'
]
'Aladdin',
'ADSL',
'AMDPLPA',
'ANTLR-PD',
'Apache-1.0',
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'Apache-2.0',
'AML',
'APSL-1.0',
'APSL-1.1',
'APSL-1.2',
'APSL-2.0',
'Artistic-1.0',
'Artistic-1.0-Perl',
'Artistic-1.0-cl8',
'Artistic-2.0',
'AAL',
'Bahyph',
'Barr',
'Beerware',
'BitTorrent-1.0',
'BitTorrent-1.1',
'BSL-1.0',
'Borceux',
'BSD-2-Clause',
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'BSD-2-Clause-NetBSD',
'BSD-3-Clause',
'BSD-3-Clause-Clear',
'BSD-4-Clause',
'BSD-Protection',
'BSD-Source-Code',
'BSD-3-Clause-Attribution',
'0BSD',
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'CECILL-B',
'CECILL-C',
'ClArtistic',
'MIT-CMU',
'CNRI-Jython',
'CNRI-Python',

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'CNRI-Python-GPL-Compatible',
'CPOL-1.02',
'CDDL-1.0',
'CDDL-1.1',
'CPAL-1.0',
'CPL-1.0',
'CATOSL-1.1',
'Condor-1.1',
'CC-BY-1.0',
'CC-BY-2.0',
'CC-BY-2.5',
'CC-BY-3.0',
'CC-BY-4.0',
'CC-BY-ND-1.0',
'CC-BY-ND-2.0',
'CC-BY-ND-2.5',
'CC-BY-ND-3.0',
'CC-BY-ND-4.0',
'CC-BY-NC-1.0',
'CC-BY-NC-2.0',
'CC-BY-NC-2.5',
'CC-BY-NC-3.0',
'CC-BY-NC-4.0',
'CC-BY-NC-ND-1.0',
'CC-BY-NC-ND-2.0',
'CC-BY-NC-ND-2.5',
'CC-BY-NC-ND-3.0',
'CC-BY-NC-ND-4.0',
'CC-BY-SA-1.0',
'CC-BY-SA-2.0',
'CC-BY-SA-2.5',
'CC-BY-SA-3.0',
'CC-BY-SA-4.0',
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'CC-SA-2.0',
'CC-SA-2.5',
'CC-SA-3.0',
'CC-SA-4.0',
'CC0-1.0',
'Crossword',
'CrystalStacker',
'CUA-OPL-1.0',
'Cube',
'curl',
'D-FSL-1.0',
'diffmark',
'WTFPL',
'DOC',
'QPL-1.0',
'Qhull',
'Rdisc',
'RPSL-1.0',
'RPL-1.1',
'RPL-1.5',
'RHeCos-1.1',
'RSCPL',
'RSA-MD',
'Ruby',
'SAX-PD',
'Saxpath',
'SCEA',
'SWL',
'SMPPL',
'Sendmail',
'SGI-B-1.0',
'SGI-B-1.1',
'SGI-B-2.0',
'OFI-1.0',
'OFI-1.1',
'SimPL-2.0',
'Sleepycat',
'SNIA',
'Spencer-86',
'Spencer-94',
'Spencer-99',
'SMLNJ',
'SugarCRM-1.1.3',
'SISLL',
'SISSL-1.2',
'SPL-1.0',
'Watcom-1.0',
'TCL',
'Unlicense',
'TMate',
'TORQUE-1.1',
'TOSL',
'Unicode-TOU',
'UPL-1.0',
'NCSA',
'Vim',
'VOSTROM',
'VSL-1.0',
'W3C-19980720',
'W3C',
'Wsuipe',
'Xnet',

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coverage
node_modules
{
  "name": "spdx-license-ids",
  "version": "1.2.2",
  "description": "A list of SPDX license identifiers",
  "repository": "shinnn/spdx-license-ids",
  "author": "Shinnosuke Watanabe (https://github.com/shinnn)",
  "scripts": {
    "build": "node --strong_mode build.js",
    "lint": "eslint --config @shinnn/node --env browser --ignore-path .gitignore .",
    "pretest": "${npm_package_scripts_build} && ${npm_package_scripts_lint}",
    "test": "node --strong_mode test.js | tap-spec",
    "coverage": "node --strong_mode node_modules/.bin/istanbul cover test.js"
  },
  "license": "Unlicense",
  "main": "spdx-license-ids.json"
A list of [SPDX license](https://spdx.org/licenses/) identifiers

[**Download JSON**](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids.json)

## Use as a JavaScript Library
### Installation

#### Package managers

##### [npm](https://www.npmjs.com/)

```
```

##### [bower](http://bower.io/)

```
```

##### [Duo](http://duojs.org/)

```
```

#### Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

### API

##### spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ... ]
```

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### 1.605 sed 4.2.2 7

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Version 3, 29 June 2007

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Utilities for parsing and creating machine-readable debian/copyright files.

The specification for the format (also known as DEP5) is available here: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Start from the Copyright docstring for usage information.
from __future__ import unicode_literals

import collections
import itertools
import io
import re
import warnings
from debian import deb822

_CURRENT_FORMAT = (
    'http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/)

_KNOWN_FORMATS = frozenset(
    _CURRENT_FORMAT,
    # TODO(jsw): Transparently rewrite https:// as http://, at least for this?
    'https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/,
)

class Error(Exception):
    """Base class for exceptions in this module."""

class NotMachineReadableError(Error):
    """Raised when the input is not a machine-readable debian/copyright file."""

class Copyright(object):
    """Represents a debian/copyright file.

    A Copyright object contains a Header paragraph and a list of additional
    Files or License paragraphs. It provides methods to iterate over those
    paragraphs, in addition to adding new ones. It also provides a mechanism
    for finding the Files paragraph (if any) that matches a particular
    filename.

    Typical usage:

    with io.open('debian/copyright', 'rt', encoding='utf-8') as f:
        c = copyright.Copyright(f)

        header = c.header
        # Header exposes standard fields, e.g.
        print('Upstream name: ', header.upstream_name)"""
lic = header.license
if lic:
    print('Overall license: ', lic.synopsis)
# You can also retrieve and set custom fields.
header['My-Special-Field'] = 'Very special'

# Find the license for a given file.
paragraph = c.find_files_paragraph('debian/rules')
if paragraph:
    print('License for debian/rules: ', paragraph.license)

# Dump the result, including changes, to another file.
with io.open('debian/copyright.new', 'wt', encoding='utf-8') as f:
    c.dump(f=f)

It is possible to build up a Copyright from scratch, by modifying the
header and using add_files_paragraph and add_license_paragraph. See the
associated method docstrings.

def __init__(self, sequence=None, encoding='utf-8'):
    """Initializer.

    :param sequence: Sequence of lines, e.g. a list of strings or a
        file-like object. If not specified, a blank Copyright object is
        initialized.
    :param encoding: Encoding to use, in case input is raw byte strings.
        It is recommended to use unicode objects everywhere instead, e.g.
        by opening files in text mode.

    Raises:
    NotMachineReadableError if 'sequence' does not contain a
        machine-readable debian/copyright file.
    ""
    super(Copyright, self).__init__()

    self.__paragraphs = []

    if sequence is not None:
        paragraphs = list(deb822.Deb822.iter_paragraphs(
            sequence=sequence, encoding=encoding))
    if not paragraphs:
        raise NotMachineReadableError('no paragraphs in input')
    self.__header = Header(paragraphs[0])
    for i in range(1, len(paragraphs)):
        p = paragraphs[i]
        if 'Files' in p:
            p = FilesParagraph(p)
elif 'License' in p:
    p = LicenseParagraph(p)
else:
    warnings.warn('Non-header paragraph has neither "Files"
    ' nor "License" fields')
    self.__paragraphs.append(p)
else:
    self.__header = Header()

@property
def header(self):
    """The file header paragraph."""
    return self.__header

@header.setter
def header(self, hdr):
    if not isinstance(hdr, Header):
        raise TypeError('value must be a Header object')
    self.__header = hdr

def all_paragraphs(self):
    """Returns an iterator over all paragraphs (header, Files, License).

    The header (returned first) will be returned as a Header object; file
    paragraphs as FilesParagraph objects; license paragraphs as
    LicenseParagraph objects.
    """
    return itertools.chain([self.header], (p for p in self.__paragraphs))

def __iter__(self):
    """Iterate over all paragraphs

    see all_paragraphs() for more information
    """
    return self.all_paragraphs()

def all_files_paragraphs(self):
    """Returns an iterator over the contained FilesParagraph objects."""
    return (p for p in self.__paragraphs if isinstance(p, FilesParagraph))

def find_files_paragraph(self, filename):
    """Returns the FilesParagraph for the given filename.

    In accordance with the spec, this method returns the last FilesParagraph
    that matches the filename. If no paragraphs matched, returns None.
    """

---
result = None
for p in self.all_files_paragraphs():
    if p.matches(filename):
        result = p
return result

def add_files_paragraph(self, paragraph):
    """Adds a FilesParagraph to this object.

    The paragraph is inserted directly after the last FilesParagraph (which
    might be before a standalone LicenseParagraph).
    """
    if not isinstance(paragraph, FilesParagraph):
        raise TypeError('paragraph must be a FilesParagraph instance')

    last_i = -1
    for i, p in enumerate(self.__paragraphs):
        if isinstance(p, FilesParagraph):
            last_i = i
    self.__paragraphs.insert(last_i + 1, paragraph)

def all_license_paragraphs(self):
    """Returns an iterator over standalone LicenseParagraph objects."""
    return (p for p in self.__paragraphs if isinstance(p, LicenseParagraph))

def add_license_paragraph(self, paragraph):
    """Adds a LicenceParagraph to this object.

    The paragraph is inserted after any other paragraphs.
    """
    if not isinstance(paragraph, LicenseParagraph):
        raise TypeError('paragraph must be a LicenseParagraph instance')
    self.__paragraphs.append(paragraph)

def dump(self, f=None):
    """Dumps the contents of the copyright file.

    If f is None, returns a unicode object. Otherwise, writes the contents
to f, which must be a file-like object that is opened in text mode
(i.e. that accepts unicode objects directly). It is thus up to the
caller to arrange for the file to do any appropriate encoding.
"""
    return_string = False
    if f is None:
        return_string = True
        f = io.StringIO()
    self.header.dump(f, text_mode=True)
    for p in self.__paragraphs:
        f.write(p.as_text())
f.write('
')
p.dump(f, text_mode=True)
if return_string:
    return f.getvalue()

def _single_line(s):
    """Returns s if it is a single line; otherwise raises ValueError."""
    if '
' in s:
        raise ValueError('must be single line')
    return s

class _LineBased(object):
    """Namespace for conversion methods for line-based lists as tuples."""
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    @staticmethod
    def from_str(s):
        """Returns the lines in 's', with whitespace stripped, as a tuple."""
        return tuple(v for v in
                    (line.strip() for line in (s or '').strip().splitlines())
                    if v)

    @staticmethod
    def to_str(seq):
        """Returns the sequence as a string with each element on its own line.

        If 'seq' has one element, the result will be on a single line.
        Otherwise, the first line will be blank.
        """
        l = list(seq)
        if not l:
            return None
        tmp = ['',
        for s in l:
            if len(l) == 1:
                return process_and_validate(l[0])

            tmp += ["]

            for s in l:
class _SpaceSeparated(object):
    '''Namespace for conversion methods for space-separated lists as tuples.'''
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    _has_space = re.compile(r'ss')

    @staticmethod
    def from_str(s):
        '''Returns the values in s as a tuple (empty if only whitespace).'''
        return tuple(v for v in (s or '').split() if v)

    @classmethod
    def to_str(cls, seq):
        '''Returns the sequence as a space-separated string (None if empty).'''
        l = list(seq)
        if not l:
            return None
        tmp = []
        for s in l:
            if cls._has_space.search(s):
                raise ValueError('values must not contain whitespace')
            s = s.strip()
            if not s:
                raise ValueError('values must not be empty')
            tmp.append(s)
        return ' '.join(tmp)

    # TODO(jsw): Move multiline formatting/parsing elsewhere?

def format_multiline(s):
    '''Formats multiline text for insertion in a Deb822 field.

    Each line except for the first one is prefixed with a single space. Lines
    that are blank or only whitespace are replaced with '.
    '''
    if s is None:
        return None
    return format_multiline_lines(s.splitlines())

def format_multiline_lines(lines):
    '''Same as format_multiline, but taking input pre-split into lines.'''
    out_lines = [ ]
for i, line in enumerate(lines):
    if i != 0:
        if not line.strip():
            line = '.
        line = ' ' + line
        out_lines.append(line)
return '\n'.join(out_lines)

def parse_multiline(s):
    """Inverse of format_multiline.

    Technically it can't be a perfect inverse, since format_multiline must
    replace all-whitespace lines with '. '. Specifically, this function:
    - Does nothing to the first line
    - Removes first character (which must be ')') from each proceeding line.
    - Replaces any line that is '.' with an empty line.
    ""
    if s is None:
        return None
    return '\n'.join(parse_multiline_as_lines(s))

def parse_multiline_as_lines(s):
    """Same as parse_multiline, but returns a list of lines.

    (This is the inverse of format_multiline_lines.)
    ""
    lines = s.splitlines()
    for i, line in enumerate(lines):
        if i == 0:
            continue
        if line.startswith(' '):
            line = line[1:]
        else:
            raise ValueError('continued line must begin with " "')
        if line == '.':
            line = ''
        lines[i] = line
    return lines

class License(collections.namedtuple('License', 'synopsis text')):
    """Represents the contents of a License field. Immutable.""

    def __new__(cls, synopsis, text=''):  
        """Creates a new License object."

:param synopsis: The short name of the license, or an expression giving
alternatives. (The first line of a License field.)
:param text: The full text of the license, if any (may be None). The
lines should not be mangled for "deb822"-style wrapping - i.e. they
should not have whitespace prefixes or single '.' for empty lines.

```
return super(License, cls).__new__(
    cls, synopsis=_single_line(synopsis), text=(text or ''))
```

classmethod
def from_str(cls, s):
    if s is None:
        return None

    lines = parse_multiline_as_lines(s)
    if not lines:
        return cls('')
    return cls(lines[0], text='
'.join(itertools.islice(lines, 1, None)))

def to_str(self):
    return format_multiline_lines([self.synopsis] + self.text.splitlines())

# TODO(jsw): Parse the synopsis?
# TODO(jsw): Provide methods to look up license text for known licenses?

def globs_to_re(globs):
    r'''Returns an re object for the given globs.

    Only * and ? wildcards are supported. Literal * and ? may be matched via
    \* and \\?, respectively. A literal backslash is matched \\. Any other
    character after a backslash is forbidden.

    Empty globs match nothing.

    Raises ValueError if any of the globs is illegal.
    ''''
    buf = io.StringIO()
    for i, glob in enumerate(globs):
        if i != 0:
            buf.write('|')
        i = 0
        n = len(glob)
        while i < n:
            c = glob[i]
            i += 1
            if c == '\*':
                buf.write('.*')
elif c == '?':
    buf.write('.
else:
    if i < n:
        c = glob[i]
        i += 1
    else:
        raise ValueError('single backslash not allowed at end')
    if c in 'r\?*':
        buf.write(re.escape(c))
    else:
        raise ValueError(r'invalid escape sequence: \%s\ %c')
else:
    buf.write(re.escape(c))

# Patterns must be anchored at the end of the string. (We use \Z instead
# of $ so that this works correctly for filenames including \n.)
buf.write(r'\Z')
return re.compile(buf.getvalue(), re.MULTILINE | re.DOTALL)

class FilesParagraph(deb822.RestrictedWrapper):
    """Represents a Files paragraph of a debian/copyright file.

This kind of paragraph is used to specify the copyright and license for a
particular set of files in the package.
"""

def __init__(self, data, _internal_validate=True):
    super(FilesParagraph, self).__init__(data)

    if _internal_validate:
        if 'Files' not in data:
            raise ValueError('"Files" field required')
        # For the other "required" fields, we just warn for now. Perhaps
        # these should be upgraded to exceptions (potentially protected by
        # a "strict" param).
        if 'Copyright' not in data:
            warnings.warn('Files paragraph missing Copyright field')
        if 'License' not in data:
            warnings.warn('Files paragraph missing License field')

        if not self.files:
            warnings.warn('Files paragraph has empty Files field')

        self.__cached_files_pat = (None, None)

    @classmethod
def create(cls, files, copyright, license):
    """Create a new FilesParagraph from its required parts.

    :param files: The list of file globs.
    :param copyright: The copyright for the files (free-form text).
    :param license: The Licence for the files.
    """
    p = cls(deb822.Deb822(), _internal_validate=False)
    p.files = files
    p.copyright = copyright
    p.license = license
    return p

def files_pattern(self):
    """Returns a regular expression equivalent to the Files globs.

    Caches the result until files is set to a different value.

    Raises ValueError if any of the globs are invalid.
    """
    files_str = self['files']
    if self.__cached_files_pat[0] != files_str:
        self.__cached_files_pat = (files_str, globs_to_re(self.files))
    return self.__cached_files_pat[1]

def matches(self, filename):
    """Returns True iff filename is matched by a glob in Files."""
    pat = self.files_pattern()
    return pat.match(filename) is not None

def create(cls, files, copyright, license):
    """Create a new FilesParagraph from its required parts.

    :param files: The list of file globs.
    :param copyright: The copyright for the files (free-form text).
    :param license: The Licence for the files.
    """
    p = cls(deb822.Deb822(), _internal_validate=False)
    p.files = files
    p.copyright = copyright
    p.license = license
    return p

def files_pattern(self):
    """Returns a regular expression equivalent to the Files globs.

    Caches the result until files is set to a different value.

    Raises ValueError if any of the globs are invalid.
    """
    files_str = self['files']
    if self.__cached_files_pat[0] != files_str:
        self.__cached_files_pat = (files_str, globs_to_re(self.files))
    return self.__cached_files_pat[1]

def matches(self, filename):
    """Returns True iff filename is matched by a glob in Files."""
    pat = self.files_pattern()
    return pat.match(filename) is not None

files = deb822.RestrictedField(
    'Files', from_str=_SpaceSeparated.from_str,
    to_str=_SpaceSeparated.to_str, allow_none=False)

copyright = deb822.RestrictedField('Copyright', allow_none=False)

license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)

comment = deb822.RestrictedField('Comment')
def __init__(self, data, _internal_validate=True):
    super(LicenseParagraph, self).__init__(data)
    if _internal_validate:
        if 'License' not in data:
            raise ValueError("License" field required)
        if 'Files' in data:
            raise ValueError('input appears to be a Files paragraph')

@classmethod
def create(cls, license):
    """Returns a LicenseParagraph with the given license."""
    if not isinstance(license, License):
        raise TypeError('license must be a License instance')
    paragraph = cls(deb822.Deb822(), _internal_validate=False)
    paragraph.license = license
    return paragraph

# TODO(jsw): Validate that the synopsis of the license is a short name or
# short name with exceptions (not an alternatives expression). This
# requires help from the License class.
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)

comment = deb822.RestrictedField('Comment')

# Hide 'Files'.
__files = deb822.RestrictedField('Files')

class Header(deb822.RestrictedWrapper):
    """Represents the header paragraph of a debian/copyright file."

    Property values are all immutable, such that in order to modify them you
    must explicitly set them (rather than modifying a returned reference).
    """

def __init__(self, data=None):
    """Initializer.

    :param parsed: A deb822.Deb822 object for underlying data. If None, a
        new one will be created.
    """
    if data is None:
        data = deb822.Deb822()
data['Format'] = _CURRENT_FORMAT

if 'Format-Specification' in data:
    warnings.warn('use of deprecated "Format-Specification" field;
      rewriting as "Format"
    )
    data['Format'] = data['Format-Specification']
    del data['Format-Specification']

super(Header, self).__init__(data)

fmt = self.format
if fmt is None:
    raise NotMachineReadableError(
        'input is not a machine-readable debian/copyright')
if fmt not in _KNOWN_FORMATS:
    warnings.warn('format not known: %r' % fmt)

def known_format(self):
    """Returns True iff the format is known.""
    return self.format in _KNOWN_FORMATS

def current_format(self):
    """Returns True iff the format is the current format.""
    return self.format == _CURRENT_FORMAT

format = deb822.RestrictedField(
    'Format', to_str=_single_line, allow_none=False)

upstream_name = deb822.RestrictedField(
    'Upstream-Name', to_str=_single_line)

upstream_contact = deb822.RestrictedField(
    'Upstream-Contact', from_str=_LineBased.from_str,
    to_str=_LineBased.to_str)

source = deb822.RestrictedField('Source')

disclaimer = deb822.RestrictedField('Disclaimer')

comment = deb822.RestrictedField('Comment')

license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str)

copyright = deb822.RestrictedField('Copyright')

#!/usr/bin/python

# vim: fileencoding=utf-8
#
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# along with this program; if not, write to the Free Software
# Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
"""Check the format and dumpability of debian/copyright filenames on stdin.
Usage:
find /tmp/packages -type f -name copyright | ./check_parse_and_dump.py
The --suppress_warnings and --summary flags can be used to make the program
output less verbose.
"""
import argparse
import codecs
import io
import sys
import warnings
from debian import copyright

def parse_args():
parser = argparse.ArgumentParser()
parser.add_argument('--summary', action='store_true',
help='Whether to print only a summary')
parser.add_argument('--suppress_warnings', action='store_true',
help='Whether to suppress copyright warnings')
return parser.parse_args()

def main():
args = parse_args()

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if args.suppress_warnings:
    warnings.filterwarnings('ignore', module='debian.copyright')

problems = {}  
parse_failures = []
dump_failures = []

total = 0
for filename in sys.stdin:
    total += 1
    filename = filename.rstrip()
    with io.open(filename, mode='rt', encoding='utf-8') as f:
        try:
            c = copyright.Copyright(f)
        except Exception as e:
            problems.setdefault((1, 'Parse failures'), []).append((filename, e))
            continue
        try:
            c.dump()
        except Exception as e:
            problems.setdefault((2, 'Dump failures'), []).append((filename, e))

    if not c.header.known_format():
        problems.setdefault((3, 'Unknown format'), []).append((filename, c.header.format))

invalid_globs = []
globs_with_leading_dot_slash = []
globs_with_trailing_comma = []
globs_with_double_star = []
for p in c.all_files_paragraphs():
    try:
        p.files_pattern()
    except Exception as e:
        invalid_globs.append(e)
    for glob in p.files:
        if glob.startswith('./'):
            globs_with_leading_dot_slash.append(glob)
        if glob.endswith(',':
            globs_with_trailing_comma.append(glob)
        if '**' in glob:
            globs_with_double_star.append(glob)

    if invalid_globs:
        problems.setdefault((4, 'Invalid glob'), []).append(}
if globs_with_leading_dot_slash:
    problems.setdefault((5, 'Globs with leading ./'), []).append(
        (filename, globs_with_leading_dot_slash))
if globs_with_trailing_comma:
    problems.setdefault((6, 'Globs with trailing ,'), []).append(
        (filename, globs_with_trailing_comma))
if globs_with_double_star:
    problems.setdefault((7, 'Globs with **'), []).append(
        (filename, globs_with_double_star))

f = codecs.getwriter(encoding='utf-8')(sys.stdout)
for (_, heading), problems in sorted(problems.items()):
    f.write('
%s: (%d / %d)
' % (heading, len(problems), total))
    if not args.summary:
        for filename, problem in problems:
            f.write(' %s: %s
' % (filename, problem))

if __name__ == '__main__':
    main()
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Version 3, 29 June 2007

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@example
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 when it starts in an interactive mode:

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

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

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

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

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This subpackage is under the GPL, see file COPYING in the toplevel directory.
The libasprintf package is under the LGPL, see file COPYING.LIB.

1.610 util-linux 2.27.1 6ubuntu3.7

1.611 fonts-lato 2.0-2

1.612 aws-sdk-go v1.23.12

1.612.1 Available under license:

    {
    "version":"2.0",
    "metadata":{
    "apiVersion":"2018-08-01",}
"endpointPrefix":"license-manager",
"jsonVersion":"1.1",
"protocol":"json",
"serviceFullName":"AWS License Manager",
"serviceId":"License Manager",
"signatureVersion":"v4",
"targetPrefix":"AWSLicenseManager",
"uid":"license-manager-2018-08-01"
},

"operations":{
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{"shape":"ResourceLimitExceededException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededeException"}
]
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{"shape":"InvalidParameterValueException"},
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{"shape":"AccessDeniedException"},
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{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
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"requestUri":"/
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"input":{"shape":"GetServiceSettingsRequest"},
"output":{"shape":"GetServiceSettingsResponse"},
"errors":[
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{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
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"requestUri":"/
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"input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
"output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
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{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
]
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"ListLicenseConfigurations":{
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    "requestUri":"/
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"output":{"shape":"ListTagsForResourceResponse"},
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    {
    "shape":"ServerInternalException"},
    {
    "shape":"AuthorizationException"},
    {
    "shape":"AccessDeniedException"},
    {
    "shape":"RateLimitExceededException"
}
],
"ListUsageForLicenseConfiguration":{
    "name":"ListUsageForLicenseConfiguration",
    "http":{
        "method":"POST",
        "requestUri":"/
    },
    "input":{"shape":"ListUsageForLicenseConfigurationRequest"},
    "output":{"shape":"ListUsageForLicenseConfigurationResponse"},
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        {
        "shape":"FilterLimitExceededException"},
        {
        "shape":"ServerInternalException"},
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        "shape":"AuthorizationException"},
        {
        "shape":"AccessDeniedException"},
        {
        "shape":"RateLimitExceededException"
    }
],
"TagResource":{
    "name":"TagResource",
    "http":{
        "method":"POST",
        "requestUri":"/
    },
    "input":{"shape":"TagResourceRequest"},
    "output":{"shape":"TagResourceResponse"},
    "errors":[
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        "shape":"InvalidParameterValueException"},
        {
        "shape":"ServerInternalException"},
        {
        "shape":"AuthorizationException"},
        {
        "shape":"AccessDeniedException"},
        {
        "shape":"RateLimitExceededException"
    }
],
"UntagResource":{

"name":"UntagResource",
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 "method":"POST",
 "requestUri":"/"
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"input":{"shape":"UntagResourceRequest"},
"output":{"shape":"UntagResourceResponse"},
"errors":[
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 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
 ]
},
"UpdateLicenseConfiguration":{
 "name":"UpdateLicenseConfiguration",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
"input":{"shape":"UpdateLicenseConfigurationRequest"},
"output":{"shape":"UpdateLicenseConfigurationResponse"},
"errors":[
 {"shape":"InvalidParameterValueException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
 ]
},
"UpdateLicenseSpecificationsForResource":{
 "name":"UpdateLicenseSpecificationsForResource",
 "http":{
 "method":"POST",
 "requestUri":"/"
 },
"input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
"output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
"errors":[
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 {"shape":"InvalidResourceStateException"},
 {"shape":"LicenseUsageException"},
 {"shape":"ServerInternalException"},
 {"shape":"AuthorizationException"},
 {"shape":"AccessDeniedException"},
 {"shape":"RateLimitExceededException"}
 ]
}
"UpdateServiceSettings":{
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        "requestUri":/
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    "input":{
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    "output":{
        "shape":"UpdateServiceSettingsResponse"},
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        {
            "shape":"AuthorizationException"},
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            "shape":"AccessDeniedException"},
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            "shape":"RateLimitExceededException"}
    ]
},
"shapes":{
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        "members":{
            "Message":{
                "shape":"Message"
            }
        },
        "exception":true
    },
    "AuthorizationException":{
        "type":"structure",
        "members":{
            "Message":{
                "shape":"Message"
            }
        },
        "exception":true
    },
    "Boolean":{"type":"boolean"},
    "BoxBoolean":{"type":"boolean"},
    "BoxInteger":{"type":"integer"},
    "BoxLong":{"type":"long"},
    "ConsumedLicenseSummary":{
        "type":"structure",
        "members":{
            "ResourceType":{
                "shape":"ResourceType"
            },
            "ConsumedLicenses":{
                "shape":"BoxLong"
            }
        }
    },
    "ConsumedLicenseSummaryList":{
        "type":"list",
        "member":{
            "shape":"ConsumedLicenseSummary"
        }
    }
}
"CreateLicenseConfigurationRequest": {
    "type": "structure",
    "required": [
        "Name",
        "LicenseCountingType"
    ],
    "members": {
        "Name": {"shape": "String"},
        "Description": {"shape": "String"},
        "LicenseCountingType": {"shape": "LicenseCountingType"},
        "LicenseCount": {"shape": "BoxLong"},
        "LicenseCountHardLimit": {"shape": "BoxBoolean"},
        "LicenseRules": {"shape": "StringList"},
        "Tags": {"shape": "TagList"}
    }
},
"CreateLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
        "LicenseConfigurationArn": {"shape": "String"}
    }
},
"DateTime": {"type": "timestamp"},
"DeleteLicenseConfigurationRequest": {
    "type": "structure",
    "required": ["LicenseConfigurationArn"],
    "members": {
        "LicenseConfigurationArn": {"shape": "String"}
    }
},
"DeleteLicenseConfigurationResponse": {
    "type": "structure",
    "members": {
    }
},
"FailedDependencyException": {
    "type": "structure",
    "members": {
        "Message": {"shape": "Message"}
    },
    "exception": true,
    "fault": true
},
"Filter": {
    "type": "structure",
    "members": {
        "Name": {"shape": "FilterName"},
        "Values": {"shape": "FilterValues"}
    }
}
"FilterLimitExceededException": {
  "type": "structure",
  "members": {
    "Message": {"shape": "Message"}
  },
  "exception": true
},
"FilterName": {"type": "string"},
"FilterValue": {"type": "string"},
"FilterValues": {
  "type": "list",
  "member": {"shape": "FilterValue"}
},
"Filters": {
  "type": "list",
  "member": {"shape": "Filter"}
},
"GetLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {"shape": "String"}
  }
},
"GetLicenseConfigurationResponse": {
  "type": "structure",
  "members": {
    "LicenseConfigurationId": {"shape": "String"},
    "LicenseConfigurationArn": {"shape": "String"},
    "Name": {"shape": "String"},
    "Description": {"shape": "String"},
    "LicenseCountingType": {"shape": "LicenseCountingType"},
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    "LicenseCountHardLimit": {"shape": "BoxBoolean"},
    "ConsumedLicenses": {"shape": "BoxLong"},
    "Status": {"shape": "BoxLong"},
    "OwnerAccountId": {"shape": "String"},
    "ConsumedLicenseSummaryList": {"shape": "ConsumedLicenseSummaryList"},
    "ManagedResourceSummaryList": {"shape": "ManagedResourceSummaryList"},
    "Tags": {"shape": "TagList"}
  }
},
".GetServiceSettingsRequest": {
  "type": "structure",
  "members": {

"AssociationTime": {
  "shape": "DateTime"
},
"ConsumedLicenses": {
  "shape": "BoxLong"
}
},
"LicenseConfigurationUsageList": {
  "type": "list",
  "member": {
    "shape": "LicenseConfigurationUsage"
  }
},
"LicenseConfigurations": {
  "type": "list",
  "member": {
    "shape": "LicenseConfiguration"
  }
},
"LicenseCountingType": {
  "type": "string",
  "enum": [
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseSpecification": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {
      "shape": "String"
    }
  }
},
"LicenseSpecifications": {
  "type": "list",
  "member": {
    "shape": "LicenseSpecification"
  }
},
"LicenseUsageException": {
  "type": "structure",
  "members": {
    "Message": {
      "shape": "Message"
    }
  },
  "exception": true
},
"ListAssociationsForLicenseConfigurationRequest": {
  "type": "structure",
  "required": ["LicenseConfigurationArn"],
  "members": {
    "LicenseConfigurationArn": {
      "shape": "String"
    },
    "MaxResults": {
      "shape": "BoxInteger"
    },
    "NextToken": {
      "shape": "String"
    }
  }
}
"ListAssociationsForLicenseConfigurationResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurationAssociations":{"shape":"LicenseConfigurationAssociations"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseConfigurationsRequest":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArns":{"shape":"StringList"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"Filters"}
  }
},
"ListLicenseConfigurationsResponse":{
  "type":"structure",
  "members":{
    "LicenseConfigurations":{"shape":"LicenseConfigurations"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceRequest":{
  "type":"structure",
  "required":["ResourceArn"],
  "members":{
    "ResourceArn":{"shape":"String"},
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"}
  }
},
"ListLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseSpecifications":{"shape":"LicenseSpecifications"},
    "NextToken":{"shape":"String"}
  }
},
"ListResourceInventoryRequest":{
  "type":"structure",
  "members":{
    "MaxResults":{"shape":"BoxInteger"},
    "NextToken":{"shape":"String"},
    "Filters":{"shape":"InventoryFilterList"}
  }
},
"ListResourceInventoryResponse":{
"OrganizationConfiguration":{
  "type":"structure",
  "required":["EnableIntegration"],
  "members":{
    "EnableIntegration":{"shape":"Boolean"}
  }
},
"RateLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceInventory":{
  "type":"structure",
  "members":{
    "ResourceId":{"shape":"String"},
    "ResourceType":{"shape":"ResourceType"},
    "ResourceArn":{"shape":"String"},
    "Platform":{"shape":"String"},
    "PlatformVersion":{"shape":"String"},
    "ResourceOwningAccountId":{"shape":"String"}
  }
},
"ResourceInventoryList":{
  "type":"list",
  "member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "exception":true
},
"ResourceType":{
  "type":"string",
  "enum":[
    "EC2_INSTANCE",
    "EC2_HOST",
    "EC2_AMI"
  ]
},
"ServerInternalException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  }
}
"TagKeys":{"shape":"TagKeyList"}
}
,
"UntagResourceResponse":{  "type":"structure",  "members":{}  }
},
"UpdateLicenseConfigurationRequest":{  "type":"structure",  "required":["LicenseConfigurationArn"],  "members":{    "LicenseConfigurationArn":{"shape":"String"},    "LicenseConfigurationStatus":{"shape":"LicenseConfigurationStatus"},    "LicenseRules":{"shape":"StringList"},    "LicenseCount":{"shape":"BoxLong"},    "LicenseCountHardLimit":{"shape":"BoxBoolean"},    "Name":{"shape":"String"},    "Description":{"shape":"String"}  }
  },
"UpdateLicenseConfigurationResponse":{  "type":"structure",  "members":{}  },
"UpdateLicenseSpecificationsForResourceRequest":{  "type":"structure",  "required":["ResourceArn"],  "members":{    "ResourceArn":{"shape":"String"},    "AddLicenseSpecifications":{"shape":"LicenseSpecifications"},    "RemoveLicenseSpecifications":{"shape":"LicenseSpecifications"}  }
  },
"UpdateLicenseSpecificationsForResourceResponse":{  "type":"structure",  "members":{}  },
"UpdateServiceSettingsRequest":{  "type":"structure",  "members":{    "S3BucketArn":{"shape":"String"},    "SnsTopicArn":{"shape":"String"},    "OrganizationConfiguration":{"shape":"OrganizationConfiguration"},    "EnableCrossAccountsDiscovery":{"shape":"BoxBoolean"}  }
  }
This is the AWS License Manager API Reference. It provides descriptions, syntax, and usage examples for each of the actions and data types for License Manager. The topic for each action shows the Query API request parameters and the XML response. You can also view the XML request elements in the WSDL. Alternatively, you can use one of the AWS SDKs to access an API that's tailored to the programming language or platform that you're using. For more information, see AWS SDKs.

The operations include:
- CreateLicenseConfiguration: Creates a new license configuration object. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or VCPU), tenancy (shared tenancy, Amazon EC2 Dedicated Instance, Amazon EC2 Dedicated Host, or any of these), host affinity (how long a VM must be associated with a host), the number of licenses purchased and used.
- DeleteLicenseConfiguration: Deletes an existing license configuration. This action fails if the configuration is in use.
- GetLicenseConfiguration: Returns a detailed description of a license configuration.
- GetServiceSettings: Gets License Manager settings for a region. Exposes the configured S3 bucket, SNS topic, etc., for inspection.
- ListAssociationsForLicenseConfiguration: Lists the resource associations for a license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance may not consume a license (depending on the license rules). Use this operation to find all resources associated with a license configuration.
- ListLicenseConfigurations: Lists license configuration objects for an account, each containing the name, description, license type, and other license terms modeled from a license agreement.
- ListLicenseSpecificationsForResource: Returns the license configuration for a resource.
- ListResourceInventory: Returns a detailed list of resources.
- ListTagsForResource: Lists tags attached to a resource.
- ListUsageForLicenseConfiguration: Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration.
- TagResource: Attach one or more tags to a resource.
- UntagResource: Remove tags from a resource.
- UpdateLicenseConfiguration: Modifies the attributes of an existing license configuration object. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (Instances, cores, sockets, VCPUs), tenancy (shared or Dedicated Host), host affinity (how long a VM is associated with a host), the number of licenses purchased and used.
- UpdateLicenseSpecificationsForResource: Adds or removes license configurations for a specified AWS resource. This operation currently supports updating the license specifications of AMIs, instances, and hosts.
templates and AWS CloudFormation templates are not managed from this operation as those resources send the license configurations directly to a resource creation operation, such as `<code>RunInstances</code>`.

"UpdateServiceSettings": "<p>Updates License Manager service settings.</p>"
}

"shapes": {
  "AccessDeniedException": {
    "base": "<p>Access to resource denied.</p>",
    "refs": {
    }
  },
  "AuthorizationException": {
    "base": "<p>The AWS user account does not have permission to perform the action. Check the IAM policy associated with this account.</p>",
    "refs": {
    }
  },
  "Boolean": {
    "base": null,
    "refs": {
      "OrganizationConfiguration$EnableIntegration": "<p>Flag to activate AWS Organization integration.</p>"
    }
  },
  "BoxBoolean": {
    "base": null,
    "refs": {
      "CreateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>Flag indicating whether hard or soft license enforcement is used. Exceeding a hard limit results in the blocked deployment of new instances.</p>",
      "GetLicenseConfigurationResponse$LicenseCountHardLimit": "<p>Sets the number of available licenses as a hard limit.</p>",
      "GetServiceSettingsResponse$EnableCrossAccountsDiscovery": "<p>Indicates whether cross-account discovery has been enabled.</p>",
      "LicenseConfiguration$LicenseCountHardLimit": "<p>Sets the number of available licenses as a hard limit.</p>",
      "UpdateLicenseConfigurationRequest$LicenseCountHardLimit": "<p>Sets the number of available licenses as a hard limit.</p>",
      "UpdateServiceSettingsRequest$EnableCrossAccountsDiscovery": "<p>Activates cross-account discovery.</p>"
    }
  },
  "BoxInteger": {
    "base": null,
    "refs": {
      "ListAssociationsForLicenseConfigurationRequest$MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>",
      "ListLicenseConfigurationsRequest$MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>",
      "ListLicenseSpecificationsForResourceRequest$MaxResults": "<p>Maximum number of results to return in a single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>",
      "ListLicenseSpecificationsForResourceRequest$MaxResults": "<p>Maximum number of results to return in a
single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.

"ListResourceInventoryRequest$MaxResults": "<p>Maximum number of results to return in a single call. To retrieve
the remaining results, make another call with the returned <code>NextToken</code> value.</p>",

"ListUsageForLicenseConfigurationRequest$MaxResults": "<p>Maximum number of results to return in a
single call. To retrieve the remaining results, make another call with the returned <code>NextToken</code> value.</p>"

"BoxLong": {
"base": null,
"refs": {
"ConsumedLicenseSummary$ConsumedLicenses": "<p>Number of licenses consumed by a resource.</p>",
"CreateLicenseConfigurationRequest$LicenseCount": "<p>Number of licenses managed by the license
configuration.</p>",
"GetLicenseConfigurationResponse$LicenseCount": "<p>Number of available licenses.</p>",
"GetLicenseConfigurationResponse$ConsumedLicenses": "<p>Number of licenses assigned to resources.</p>",
"LicenseConfiguration$LicenseCount": "<p>Number of licenses managed by the license configuration.</p>",
"LicenseConfiguration$ConsumedLicenses": "<p>Number of licenses consumed.</p>",
"LicenseConfigurationUsage$ConsumedLicenses": "<p>Number of licenses consumed out of the total
provisioned in the license configuration.</p>",
"ManagedResourceSummary$AssociationCount": "<p>Number of resources associated with licenses.</p>",
"UpdateLicenseConfigurationRequest$LicenseCount": "<p>New number of licenses managed by the license
configuration.</p>"

"ConsumedLicenseSummary": {
"base": "<p>Details about license consumption.</p>",
"refs": {
"ConsumedLicenseSummaryList$member": null
}
}

"ConsumedLicenseSummaryList": {
"base": null,
"refs": {
"GetLicenseConfigurationResponse$ConsumedLicenseSummaryList": "<p>List of summaries for consumed
licenses used by various resources.</p>",
"LicenseConfiguration$ConsumedLicenseSummaryList": "<p>List of summaries for licenses consumed by
various resources.</p>"

"CreateLicenseConfigurationRequest": {
"base": null,
"refs": {
}
}

"CreateLicenseConfigurationResponse": {
"base": null,
"InventoryFilter": {  
"base": "<p>An inventory filter object.</p>",  
"refs": {  
  "InventoryFilterList$member": null  
}  
},
"InventoryFilterCondition": {  
"base": null,  
"refs": {  
  "InventoryFilter$Condition": "<p>The condition of the filter.</p>"  
}  
},
"InventoryFilterList": {  
"base": null,  
"refs": {  
  "ListResourceInventoryRequest$Filters": "<p>One or more filters.</p>"  
}  
},
"LicenseConfiguration": {  
"base": "<p>A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or VCPU), tenancy (shared tenancy, Amazon EC2 Dedicated Instance, Amazon EC2 Dedicated Host, or any of these), host affinity (how long a VM must be associated with a host), the number of licenses purchased and used.</p>",  
"refs": {  
  "LicenseConfigurations$member": null  
}  
},
"LicenseConfigurationAssociation": {  
"base": "<p>Describes a server resource that is associated with a license configuration.</p>",  
"refs": {  
  "LicenseConfigurationAssociations$member": null  
}  
},
"LicenseConfigurationAssociations": {  
"base": null,  
"refs": {  
  "ListAssociationsForLicenseConfigurationResponse$LicenseConfigurationAssociations": "<p>Lists association objects for the license configuration, each containing the association time, number of consumed licenses, resource ARN, resource ID, account ID that owns the resource, resource size, and resource type.</p>"  
}  
},
"LicenseConfigurationStatus": {  
"base": null,  
"refs": {  
  "UpdateLicenseConfigurationRequest$LicenseConfigurationStatus": "<p>New status of the license configuration (<code>ACTIVE</code> or <code>INACTIVE</code>).</p>"  
}  
}
"LicenseConfigurationUsage": {
    "base": "<p>Contains details of the usage of each resource from the license pool.</p>",
    "refs": {
        "LicenseConfigurationUsageList$member": null
    }
},
"LicenseConfigurationUsageList": {
    "base": null,
    "refs": {
        "ListUsageForLicenseConfigurationResponse$LicenseConfigurationUsageList": "<p>An array of</p><code>LicenseConfigurationUsage</code> objects.</p>
    }
},
"LicenseConfigurations": {
    "base": null,
    "refs": {
        "ListLicenseConfigurationsResponse$LicenseConfigurations": "<p>Array of license configuration objects.</p>
    }
},
"LicenseCountingType": {
    "base": null,
    "refs": {
        "CreateLicenseConfigurationRequest$LicenseCountingType": "<p>Dimension to use to track the license inventory.</p>",
        "GetLicenseConfigurationResponse$LicenseCountingType": "<p>Dimension on which the licenses are counted (for example, instances, cores, sockets, or VCPUs).</p>",
        "LicenseConfiguration$LicenseCountingType": "<p>Dimension to use to track license inventory.</p>
    }
},
"LicenseSpecification": {
    "base": "<p>Object used for associating a license configuration with a resource.</p>",
    "refs": {
        "LicenseSpecifications$member": null
    }
},
"LicenseSpecifications": {
    "base": null,
    "refs": {
        "ListLicenseSpecificationsForResourceResponse$LicenseSpecifications": "<p>License configurations associated with a resource.</p>",
        "UpdateLicenseSpecificationsForResourceRequest$AddLicenseSpecifications": "<p>License configuration ARNs to be added to a resource.</p>",
        "UpdateLicenseSpecificationsForResourceRequest$RemoveLicenseSpecifications": "<p>License configuration ARNs to be removed from a resource.</p>
    }
}
"LicenseUsageException": {  
"base": "<p>You do not have enough licenses available to support a new resource launch.</p>",  
"refs": {}  
},  
"ListAssociationsForLicenseConfigurationRequest": {  
"base": null,  
"refs": {}  
},  
"ListAssociationsForLicenseConfigurationResponse": {  
"base": null,  
"refs": {}  
},  
"ListLicenseConfigurationsRequest": {  
"base": null,  
"refs": {}  
},  
"ListLicenseConfigurationsResponse": {  
"base": null,  
"refs": {}  
},  
"ListLicenseSpecificationsForResourceRequest": {  
"base": null,  
"refs": {}  
},  
"ListLicenseSpecificationsForResourceResponse": {  
"base": null,  
"refs": {}  
},  
"ListResourceInventoryRequest": {  
"base": null,  
"refs": {}  
},  
"ListResourceInventoryResponse": {  
"base": null,  
"refs": {}  
},  
"ListTagsForResourceRequest": {  
"base": null,
"refs": { }
}
"ListTagsForResourceResponse": {
"base": null,
"refs": { }
}
"ListUsageForLicenseConfigurationRequest": {
"base": null,
"refs": { }
}
"ListUsageForLicenseConfigurationResponse": {
"base": null,
"refs": { }
}
"ManagedResourceSummary": {
"base": "&lt;p&gt;Summary for a resource.&lt;/p&gt;",
"refs": { }
}
"ManagedResourceSummaryList": {
"base": null,
"refs": { }
}
"Message": {
"base": null,
"refs": { }
"AccessDeniedException$Message": null,
"AuthorizationException$Message": null,
"FailedDependencyException$Message": null,
"FilterLimitExceededException$Message": null,
"InvalidArgumentException$Message": null,
"InvalidResourceStateException$Message": null,
"LicenseUsageException$Message": null,
"RateLimitExceededException$Message": null,
"ResourceLimitExceededException$Message": null,
"ServerInternalException$Message": null
}
}
"OrganizationConfiguration": {


"base": "<p>Object containing configuration information for AWS Organizations.</p>",
"refs": [ 
  "GetServiceSettingsResponse$OrganizationConfiguration": "<p>Indicates whether AWS Organizations has been integrated with License Manager for cross-account discovery.</p>",
  "UpdateServiceSettingsRequest$OrganizationConfiguration": "<p>Integrates AWS Organizations with License Manager for cross-account discovery.</p>",
]
],
"RateLimitExceededException": [ 
  "base": "<p>Too many requests have been submitted. Try again after a brief wait.</p>",
  "refs": [ ]
],
"ResourceInventory": [ 
  "base": "<p>A set of attributes that describe a resource.</p>",
  "refs": [ 
    "ResourceInventoryList$member": null
  ]
],
"ResourceInventoryList": [ 
  "base": null,
  "refs": [ 
    "ListResourceInventoryResponse$ResourceInventoryList": "<p>The detailed list of resources.</p>
  ]
],
"ResourceLimitExceededException": [ 
  "base": "<p>Your resource limits have been exceeded.</p>",
  "refs": [ ]
],
"ResourceType": [ 
  "base": null,
  "refs": [ 
    "ConsumedLicenseSummary$ResourceType": "<p>Resource type of the resource consuming a license (instance, host, or AMI).</p>",
    "LicenseConfigurationAssociation$ResourceType": "<p>Type of server resource.</p>",
    "LicenseConfigurationUsage$ResourceType": "<p>Type of resource associated with the license configuration.</p>",
    "ManagedResourceSummary$ResourceType": "<p>Type of resource associated with a license (instance, host, or AMI).</p>",
    "ResourceInventory$ResourceType": "<p>The type of resource.</p>"
  ]
],
"ServerInternalException": [ 
  "base": "<p>The server experienced an internal error. Try again.</p>",
  "refs": [ ]
]}
"String": {  
  "base": null,  
  "refs": {  
    "CreateLicenseConfigurationRequest$Name": "<p>Name of the license configuration.</p>",  
    "CreateLicenseConfigurationRequest$Description": "<p>Human-friendly description of the license configuration.</p>",  
    "CreateLicenseConfigurationResponse$LicenseConfigurationArn": "<p>ARN of the license configuration object after its creation.</p>",  
    "DeleteLicenseConfigurationRequest$LicenseConfigurationArn": "<p>Unique ID of the configuration object to delete.</p>",  
    "GetLicenseConfigurationRequest$LicenseConfigurationArn": "<p>ARN of the license configuration being requested.</p>",  
    "GetLicenseConfigurationResponse$LicenseConfigurationId": "<p>Unique ID for the license configuration.</p>",  
    "GetLicenseConfigurationResponse$LicenseConfigurationArn": "<p>ARN of the license configuration requested.</p>",  
    "GetLicenseConfigurationResponse$Name": "<p>Name of the license configuration.</p>",  
    "GetLicenseConfigurationResponse$Description": "<p>Description of the license configuration.</p>",  
    "GetLicenseConfigurationResponse$Status": "<p>License configuration status (active, etc.).</p>",  
    "GetLicenseConfigurationResponse$OwnerAccountId": "<p>Owner account ID for the license configuration.</p>",  
    "GetServiceSettingsResponse$S3BucketArn": "<p>Regional S3 bucket path for storing reports, license trail event data, discovery data, etc.</p>",  
    "GetServiceSettingsResponse$SnsTopicArn": "<p>SNS topic configured to receive notifications from License Manager.</p>",  
    "InventoryFilter$Name": "<p>The name of the filter.</p>",  
    "InventoryFilter$Value": "<p>Value of the filter.</p>",  
    "LicenseConfiguration$LicenseConfigurationId": "<p>Unique ID of the <code>LicenseConfiguration</code> object.</p>",  
    "LicenseConfiguration$LicenseConfigurationArn": "<p>ARN of the <code>LicenseConfiguration</code> object.</p>",  
    "LicenseConfiguration$Name": "<p>Name of the license configuration.</p>",  
    "LicenseConfiguration$Description": "<p>Description of the license configuration.</p>",  
    "LicenseConfiguration$Status": "<p>Status of the license configuration.</p>",  
    "LicenseConfiguration$OwnerAccountId": "<p>Account ID of the license configuration's owner.</p>",  
    "LicenseConfigurationAssociation$ResourceArn": "<p>ARN of the resource associated with the license configuration.</p>",  
    "LicenseConfigurationAssociation$ResourceOwnerId": "<p>ID of the AWS account that owns the resource consuming licenses.</p>",  
    "LicenseConfigurationUsage$ResourceArn": "<p>ARN of the resource associated with a license configuration.</p>",  
    "LicenseConfigurationUsage$ResourceStatus": "<p>Status of a resource associated with the license configuration.</p>",  
    "LicenseConfigurationUsage$ResourceOwnerId": "<p>ID of the account that owns a resource that is associated with the license configuration.</p>",  
    "LicenseSpecification$LicenseConfigurationArn": "<p>ARN of the <code>LicenseConfiguration</code> object.</p>",  
    "ListAssociationsForLicenseConfigurationRequest$LicenseConfigurationArn": "<p>ARN of a
<code>LicenseConfiguration</code> object.

- `ListAssociationsForLicenseConfigurationRequest$NextToken`: "<p>Token for the next set of results.</p>",
- `ListAssociationsForLicenseConfigurationResponse$NextToken`: "<p>Token for the next set of results.</p>",
- `ListLicenseConfigurationsRequest$NextToken`: "<p>Token for the next set of results.</p>",
- `ListLicenseConfigurationsResponse$NextToken`: "<p>Token for the next set of results.</p>",
- `ListLicenseSpecificationsForResourceRequest$ResourceArn`: "<p>ARN of an AMI or Amazon EC2 instance that has an associated license configuration.</p>",
- `ListLicenseSpecificationsForResourceRequest$NextToken`: "<p>Token for the next set of results.</p>",
- `ListLicenseSpecificationsForResourceResponse$NextToken`: "<p>Token for the next set of results.</p>",
- `ListLicenseSpecificationsForResourceRequest$ResourceArn`: "<p>ARN of an AMI or Amazon EC2 instance that has an associated license configuration.</p>",
- `ListLicenseSpecificationsForResourceRequest$NextToken`: "<p>Token for the next set of results.</p>",
- `ListLicenseSpecificationsForResourceResponse$NextToken`: "<p>Token for the next set of results.</p>",
- `ListResourceInventoryRequest$NextToken`: "<p>Token for the next set of results.</p>",
- `ListResourceInventoryResponse$NextToken`: "<p>Token for the next set of results.</p>",
- `ListTagsForResourceRequest$ResourceArn`: "<p>ARN of the targeted resource.</p>",
- `ListUsageForLicenseConfigurationRequest$LicenseConfigurationArn`: "<p>ARN of the targeted resource.</p>",
- `ListUsageForLicenseConfigurationRequest$NextToken`: "<p>Token for the next set of results.</p>",
- `ListUsageForLicenseConfigurationResponse$NextToken`: "<p>Token for the next set of results.</p>",
- `ResourceInventory$ResourceId`: "<p>Unique ID of the resource.</p>",
- `ResourceInventory$ResourceArn`: "<p>The ARN of the resource.</p>",
- `ResourceInventory$Platform`: "<p>The platform of the resource.</p>",
- `ResourceInventory$PlatformVersion`: "<p>The platform version of the resource in the inventory.</p>",
- `ResourceInventory$ResourceOwneringAccountId`: "<p>Unique ID of the account that owns the resource.</p>",
- `StringList$member`: null,
- `Tag$Key`: "<p>Key for the resource tag.</p>",
- `Tag$Value`: "<p>Value for the resource tag.</p>",
- `TagKeyList$member`: null,
- `TagRequest$ResourceArn`: "<p>Resource of the ARN to be tagged.</p>",
- `UntagResourceRequest$ResourceArn`: "<p>ARN of the resource.</p>",
- `UpdateLicenseConfigurationRequest$LicenseConfigurationArn`: "<p>ARN for a license configuration.</p>",
- `UpdateLicenseConfigurationRequest$Name`: "<p>New name of the license configuration.</p>",
- `UpdateLicenseConfigurationRequest$Description`: "<p>New human-friendly description of the license configuration.</p>",
- `UpdateLicenseSpecificationsForResourceRequest$ResourceArn`: "<p>ARN for an AWS server resource.</p>",
- `UpdateServiceSettingsRequest$S3BucketArn`: "<p>ARN of the Amazon S3 bucket where License Manager information is stored.</p>",
- `UpdateServiceSettingsRequest$SnsTopicArn`: "<p>ARN of the Amazon SNS topic used for License Manager alerts.</p>"
"UpdateLicenseConfigurationRequest$LicenseRules": "<p>List of flexible text strings designating license rules.</p>"
}
,
"Tag": {
"base": "<p>Tag for a resource in a key-value format.</p>",
"refs": { 
"TagList$member": null
}
},
"TagKeyList": { 
"base": null,
"refs": {
"UntagResourceRequest$TagKeys": "<p>List keys identifying tags to remove.</p>"
}
},
"TagList": { 
"base": null,
"refs": {
"CreateLicenseConfigurationRequest$Tags": "<p>The tags to apply to the resources during launch. You can only tag instances and volumes on launch. The specified tags are applied to all instances or volumes that are created during launch. To tag a resource after it has been created, see CreateTags.</p>"
,"GetLicenseConfigurationResponse$Tags": "<p>List of tags attached to the license configuration.</p>",
"ListTagsForResourceResponse$Tags": "<p>List of tags attached to the resource.</p>"
,"TagResourceRequest$Tags": "<p>Names of the tags to attach to the resource.</p>"
}
},
"TagResourceRequest": { 
"base": null,
"refs": {
}
},
"TagResourceResponse": { 
"base": null,
"refs": {
}
},
"UntagResourceRequest": { 
"base": null,
"refs": {
}
},
"UntagResourceResponse": { 
"base": null,
"refs": {
}
},
"UpdateLicenseConfigurationRequest": {
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Once this change is made in a given copy, it is irreversible for
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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.616 python-requests 2.18.4-2ubuntu0.1

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1.617 kubernetes-model 4.6.3

1.618 libonig 6.7.0-1

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1.620 shim-signed

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1.620.1 Available under license:

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Upstream-Name: shim
Upstream-Contact: Matthew Garrett <mjg@redhat.com>
Source: https://github.com/mjg59/shim.git

Files: *
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1.622 kubernetes-model 4.4.0

1.623 libmspack 0.6-3ubuntu0.3

1.623.1 Available under license:

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

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

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

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

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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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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
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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
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5. A program that contains no derivative of any portion of the
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When a "work that uses the Library" uses material from a header file
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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
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From dso/aix/dso.c:

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

* cvt - IEEE floating point formatting routines.
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1.628 python-stdlib-extensions 3.6.8 1~18.04

1.629 argon2 0~20161029-1.1
1.629.1 Available under license :
Argon2 reference source code package - reference C implementations

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1.630 procps 3.3.10-4ubuntu2.4

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1.640 adduser 3.113+nmu3ubuntu4

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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 DBX 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
", (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
", (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), ",.align %d
", (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 "+"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1
#define DBX_CONTIN_LENGTH 0

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Version 3.1, 31 March 2009

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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
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reproducing the executable from it. However, as a special exception,
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
\" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
\" Standard preamble:
\" ========================================================================
\" Vertical space (when we can't use .PP)
if t .sp .5v
if n .sp
..

Begin verbatim text
.ft CW
.nf
.ne \$1
..

End verbatim text
.ft R
.fi
..

Set up some character translations and predefined strings. \" will
\" give an unbreakable dash, \"PI will give pi, \"L will give a left
`\"` double quote, and `\*(R\" will give a right double quote. `\*(C+ will
`\"` give a nicer C++. Capital omega is used to do unbreakable dashes and
`\"` therefore won’t be available. `\*(C` and `\*(C` expand to ``` in nroff,
`\"` nothing in troff, for use with C<>.

```
\tr \(*W-.
\ds C+ \*v\v'-1p'+\*h'-1p'+\*s0\v',1v'h'-1p'
\ie n \{|`
\ . ds -- \(*W-
\ . ds Pl pi
\ . if (\n(.H=4u)&(1m=24u) .ds -- \(*W'h'-12u\)(*W'h'-12u'\-) diablo 10 pitch
\ . if (\n(.H=4u)&(1m=20u) .ds -- \(*W'h'-12u\)(*W'h'-8u'\-) diablo 12 pitch
\ . ds L" "
\ . ds R" "
\ . ds C" "
\ . ds C" "
'br\}
\ef\{|`
\ . ds -- \{em\}]
\ . ds PI \"p
\ . ds L" "
\ . ds R" "
\ . ds C" 
\ . ds C" 
'br\}
```

`\"` Escape single quotes in literal strings from groff's Unicode transform.
\ie \n(.g .ds Aq \{aq
\el .ds Aq '
```

`\"` If the F register is >0, we’ll generate index entries on stderr for
`\"` titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
`\"` entries marked with X<> in POD. Of course, you’ll have to process the
`\"` output yourself in some meaningful fashion.

`\"` Avoid warning from groff about undefined register 'F'.
\de IX
```
.. .if \nF .nr F 0
.. if \nF>0 \{|`
\ . de IX
\ . tm Index:\$$1\\n\%#`````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

"Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff
if n \{
    ds #H 0
    ds #V .8m
    ds #F .3m
    ds [#] \&
    ds [#] \&
\}

if t \{
    ds #H ((1u-(\\n(.fu%2u))/*.13m)
    ds #V .6m
    ds #F 0
    ds [#] \&
    ds ~ ~
    ds /
\}

simple accents for nroff and troff
if n \{
    ds ` \&
    ds ` \&
    ds ^ \&
    ds , \&
    ds / \&
\}

if t \{
    ds ` \&
    ds ` \&
    ds ^ \&
    ds , \&
    ds ~ ~
    ds /
\}

troff and (daisy-wheel) nroff accents
ds : \k:\h'-(\n(.wu*8/10-\*(#H)\h'\n:u'
nds 8 \h'=(#H)*b\h'-(#H'
ds o \k:\h'-(\n(.wu+\w\(de\:u-\*(#H)/2u\v-.3n\v-\*(#l\(de\v-.3n\h'\n:u-\*(#]
ds d- \h'=(#H\(pd\h'~\w-'.25m\v2\(hy\fP\v '.25m\h'-(#H'
ds D- D\k:\h'-(\n(.wu\v-.11m\v\(hy\v'.11m\h'\n:u'
ds th \v=1*#l\(w\v-'.3m\v+.1*#s-1\v-.3m\h'-(\n.w/Tu*2/3)\s-1o\s+1*#]
ds Th \v=1*#s-2l\v-2h-\w/Tu*3/5\v-'.3m\v\(w-.3m\h'-(#]
ds ae \h'-(\w'au*4/10)e
nds Ae A\h'-(\w'A*u*4/10)'E

corrections for vroff
if v .ds ~ \k:\h'-(\n(.wu*9/10-\*(#H)\s-2u-\v\s+2\h'\n:u'
if v .ds ^ \k:\h'-(\n(.wu*10/11-\*(#H)\h'-.4m\h'-(#H)

for low resolution devices (crt and lpr)
For nroff, turn off justification. Always turn off hyphenation; it makes way too many mistakes in technical documents.

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\Ve
\PP

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\PP

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\PP
.Vb 4
\&        <program> Copyright (C) <year> <name of author>
\&        This program comes with ABSOLUTELY NO WARRANTY; for details type "show w".
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\&        under certain conditions; type "show c" for details.
\Ve
\PP

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Julian Seward, jseward@bzip.org
bzlib/libbzil version 1.0.6 of 6 September 2010
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#    update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write (string + '
')
        self.num_errors += 1

    def ok (self):
        return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
self.skip_files = set()
self.skip_dirs = set()
self.skip_extensions = set()
self.fossilised_files = set()
self.own_files = set()

self.skip_files |= set([
    # Skip licence files.
    'COPYING',
    'COPYING.LIB',
    'COPYING3',
    'COPYING3.LIB',
    'LICENSE',
    'fdl.texi',
    'gpl_v3.texi',
    'fdl-1.3.xml',
    'gpl-3.0.xml',

    # Skip auto- and libtool-related files
    'aclocal.m4',
    'compile',
    'config.guess',
    'config.sub',
    'decomp',
    'install-sh',
    'libtool.m4',
    'ltmain.sh',
    'ltoptions.m4',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'ylwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
])}
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
            return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files
class Copyright:
    def __init__(self, errors):
        self.errors = errors

    # Characters in a range of years. Include '.' for typos.
    ranges = '\[0-9\]{0,1}(?:[-0-9,.\s]\[s+and\[s+]\{0-9\}\]')

    # Non-whitespace characters in a copyright holder's name.
    name = '\[\w.,-\]'

    # Matches one year.
    self.year_re = re.compile (\'[0-9]+\')

    # Matches part of a year or copyright holder.
    self.continuation_re = re.compile (ranges + '|' + name)

    # Matches a full copyright notice:
    self.copyright_re = re.compile (  
        # 1: 'Copyright (C)', etc.
        '(\[Cc\]opyright\[[Cc]\])\[Cc\]opyright\{s+\}'
        '\[Cc\]opyright\{s+\}'
        '\[Cc\]opyright\{s+\&copy;\}'
        '\[Cc\]opyright\{s+\@copyright{}\}'
        '\[Cc\]opyright = u\[l\]'
        '\[@set\{s+copyright\[w-\]+\]\]'
    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    \(\s*\{?:\' + ranges + \',?'\)
    '\[@value\{[^{}]*\}\]s+\)'

    # 3: 'by ', if used
    '(by\s+)?'

    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '\( + name + \?\&?\) + name + \(+\)*\)'

    # A regexp for notices that might have slipped by. Just matching
    # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
    # HTML header markers, so check for 'copyright' and two digits.
    self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
        re.IGNORECASE)

    self.comment_re = re.compile('#+|[*]+|;+|%+//+|@c \dnl ')

    self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt
def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break

        # If the next line doesn’t look like a proper continuation,
        # assume that what we’ve got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match

        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders

        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)

        elif holder not in self.holders:
            self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)

        else:
            # See whether the copyright is associated with the package
            # author.
            canon_form = self.holders[holder]
            if not canon_form:
                return (False, orig_line, next_line)

            # Make sure the author is given in a consistent way.
            line = (line[:match.start (4)]
                      + canon_form)
+ line[match.end (4):])

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '
'
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp '):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            lines = []
            changed = False
            line_filter = filter.get_line_filter (dir, filename)
            mode = None
            with open (pathname, 'r') as file:
                prev = None
                mode = os.fstat (file.fileno()).st_mode
                for line in file:
while line:
    next_line = None
    # Leave filtered-out lines alone.
    if not (line_filter and line_filter.match(line)):
        match = self.copyright_re.search(line)
        if match:
            res = self.update_copyright(dir, filename, filter,
                                         file, line, match)
            (this_changed, line, next_line) = res
            changed = changed or this_changed

    # Check for copyright lines that might have slipped by.
    elif self.other_copyright_re.search(line):
        self.errors.report(pathname,
                           'unrecognised copyright: %s'
                           % line.strip())
        lines.append(line)
        line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open(tmp_pathname, 'w') as file:
            for line in lines:
                file.write(line)
        os.fchmod(file.fileno(), mode)
        if self.use_quilt:
            subprocess.call(['quilt', 'add', pathname])
        os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange(len(subdirs) - 1, -1, -1):
            if filter.skip_dir(dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file(dir, filename):
                sys.stdout.write('Skipping %s
' % os.path.join(dir, filename))
            else:
                self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright = Copyright):
        self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []

self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
    self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
    self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '
')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append (arg)
elif arg in self.option_handlers:
    self.option_handlers[arg] (arg)
else:
    self.errors.report (None, 'unrecognised option: ' + arg)

if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith (canon_dir):
                    count += 1
                    self.copyright.process_tree (dir, filter)
            if count == 0:
                self.errors.report (None, 'unrecognised directory: '
                                   + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#----------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files = set (
            ['math-68881.h',
             # Not part of GCC
             'math-68881.h',])
self.skip_dirs |= set([
    # Better not create a merge nightmare for the GNAT folks.
    'ada',

    # Handled separately.
    'testsuite',
])

self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True

        # Similarly params/README.
        if filename == 'README' and os.path.basename (dir) == 'params':
            return True
return True
if filename == 'pdt_5.f03' and os.path.basename(dir) == 'gfortran.dg':
    return True
return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set({
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        })

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set({
            # Imported from GLIBC.
            'soft-fp',
        })

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set({
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        })

        self.skip_dirs |= set({
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        })

        self.own_files |= set({
            # Contains markup around the copyright owner.
def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)
        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Intel Corporation')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author('National Research Council of Canada.')
        self.add_external_author('NVIDIA Corporation')
        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
        self.add_external_author('Regents of the University of California.')
        self.add_external_author('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author('Silicon Graphics')
        self.add_external_author('Stephen L. Moshier')
        self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author('The Go Authors. All rights reserved.')
        self.add_external_author('The Go Authors.')
        self.add_external_author('The Regents of the University of California.')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        self.add_dir ('config', ConfigFilter())
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcel1')
        self.add_dir ('libc++', LibCppFilter())
        self.add_dir ('libdecnumber')
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libhsail-rt')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('lto-plugin')
        self.add_dir ('maintainer-scripts')
        self.add_dir ('zlib')

        self.default_dirs = [
            'gcc',
            'include',
            'libava',
            'libatomic',
        ]
'libbacktrace',
'libc1',
'libcpp',
'libdeccnumber',
'libgcc',
'libgfortran',
'libgomp',
'libh2sail-rt',
'libiberty',
'libitm',
'libobjc',
'libssp',
'libstdc++-v3',
'libvtv',
'ito-plugin',
]

GCCCmdLine().main()

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Version 3, 29 June 2007

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1.649 bean-validation-api 1.1.0

1.650 node-async 0.8.0-3
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1.653 libedit 3.1-20170329 1

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1.654 mpfr 4.0.1 1

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Theodore Ts'o
23-June-2007

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```

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

Index: tdbsa/tdb.c

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

- trivial database library - private includes
-
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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:

tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

# all:: image

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

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

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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1.667 pipexec 2.5.5-1
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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.

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### 1.677 bash-completion 2.8 1ubuntu1

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

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

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

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

This package was added to the e2fsprogs debian source package by Theodore Ts'o <ttyso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Theodore Ts'o
23-June-2007

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

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

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

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

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"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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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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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
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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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that the user who changes the contents of definitions files in the
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Ty Coon, President of Vice

That's all there is to it!

Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 /**
 * - Unix SMB/CIFS implementation.
 + trivial database library - standalone version
 */
 /
- trivial database library - private includes

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Gadi Oxman, August 1995

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of: tsx-11.mit.edu:/pub/linux/packages/EXT2fs/
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1.679 libseccomp 2.3.1-2.1ubuntu4

1.679.1 Available under license :

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1.680 apache-httpclient 4.5.6

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1.681 drop-wizard-metrics 1.3.2

1.682 perl 5.26.1 6ubuntu0.3
1.682.1 Available under license :

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<signature of Ty Coon>, 1 April 1989
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The End
#!perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}
my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = " 
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
      or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /\b\d{4}\b/ ;
      or die "Copyright statement not found in perl -v output '$output'";

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

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.

build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

---

1.683 libgper error 1.21 2ubuntu1

1.683.1 Available under license:

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1.684 libunwind 1.1-4.1

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1.685 py-openssl 17.5.0-1ubuntu1

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

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cpackage cmd

cfunc initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
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}

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package cmd

func initGpl2() {
Licenses["gpl2"] = License{
Name: "GNU General Public License 2.0",
PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
Header: `This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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tomb - support for clean goroutine termination in Go.

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BSON library for Go

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

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

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

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

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

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

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

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

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

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

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package cmd

import (  
    "strings"  
    "time"  
)
// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license
type License struct {
    Name            string   // The type of license in use
    PossibleMatches []string // Similar names to guess
    Text            string   // License text data
    Header          string   // License header for source files
}

func init() {
    // Allows a user to not use a license.
    Licenses["none"] = License{"None", []string{"none", "false"}, "", ""}

    initApache2()
    initMit()
    initBsdClause3()
    initBsdClause2()
    initGpl2()
    initGpl3()
    initLGPL()
    initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
    // If explicitly flagged, use that.
    if userLicense != "" {
        return findLicense(userLicense)
    }

    // If user wants to have custom license, use that.
    if viper.IsSet("license.header") || viper.IsSet("license.text") {
        return License{Header: viper.GetString("license.header"),
                       Text: viper.GetString("license.text")}
    }

    // If user wants to have built-in license, use that.
if viper.IsSet("license") {
    return findLicense(viper.GetString("license"))
}

// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]
}

func copyrightLine() string {
    author := viper.GetString("author")
    year := viper.GetString("year") // For tests.
    if year == "" {
        year = time.Now().Format("2006")
    }
    return "Copyright \( year + " + author"
}

// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        log.Fatal("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

for key, lic := range Licenses {
    for _, match := range lic.PossibleMatches {
        if strings.EqualFold(name, match) {
            return key
        }
    }
}

return ""
Paul Borman <borman@google.com>
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cmd

func initGpl3() {
Licenses["gpl3"] = License{
Name: "GNU General Public License 3.0",
PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
Header: `This program is free software: you can redistribute it and/or modify
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        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
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    }
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 Licenses["bsd"] = License{
 Name: "NewBSD",
 PossibleMatches: []string{"bsd", "newbsd", "3 clause bsd", "3-clause bsd"},
 Header: `All rights reserved.
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code

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    Licenses["freebsd"] = License{
        Name: "Simplified BSD License",
        PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd", "2 clause bsd", "simplified bsd license"},
        Header: `All rights reserved.
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Protocol Buffers for Go with Gadgets

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

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package legal

import (
   "testing"
)

func TestRegisterLicense(t *testing.T) {
   initial := len(licenses)
   RegisterLicense("dummy")
   if initial+1 != len(licenses) {
      t.Fatal("didn't add a license")
   }
}

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mgo - MongoDB driver for Go

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package legal

var licenses []string

// RegisterLicense stores the license text.
// It doesn't check whether the text was already present.
func RegisterLicense(text string) {
    licenses = append(licenses, text)
    return
}

// Licenses returns a slice of the licenses.
func Licenses() []string {
    return licenses
}

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func initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `
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Version 2.1, February 1999

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1.700 musl 1.1.22 r3

1.701 x-time-rate v0.0.0-20161028155119-f51c12702a4d

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1.702 node-balanced-match 0.4.2-1

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1.703 python-cffi 1.11.5 1
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1.704 libcap 2.25-2

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-------------------------------------------------------------------------

1.705 policykit 0.105-20ubuntu0.18.04.5

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1.708 lib-jpeg-turbo 1.5.2 0ubuntu5.18.04.1
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Version 2.1, February 1999

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1.719 libsigsegv 2.12-1

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/* List of signals that are sent when an invalid virtual memory address
is accessed, or when the stack overflows. */
#define SIGSEGV_FOR_ALL_SIGNALS(var,body) 
{ int var; var = SIGSEGV; { body } var = SIGBUS; { body } } 
/* Fault handler information. BSD Unix version. 
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#define SIGSEGV_FAULT_HANDLER_ARGLIST  int sig, int code, void *scp, void *addr
#define SIGSEGV_FAULT_ADDRESS  addr

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1.720 jersey-common 2.22

1.721 e2fsprogs 1.43.4~WIP.2017.01.30 1
1.721.1 Available under license :

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSD_LIB)

$(BSD_LIB): $(OBJFILES)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJFILES))
$(MV) pic/$(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-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)
This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Gadi Oxman, August 1995

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+++ tdbusa/tdb.c
@@ -4,11 +4,11 @@
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- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
23-June-2007

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1.728 open-ssl 1.0.2r

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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.)

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This package is used for testing builds of ncurses.

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1.736 commons-lang 2.6

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1.745 tmux 2.6-3ubuntu0.2

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1.746 apr-util 1.6.1-r3

1.747 acl 2.2.52 3

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longversion = str(longversion)

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```javascript
var parser = require('./parser.generated.js').parser
```

```javascript
module.exports = function(argument) {
  return parser.parse(argument)
}
```

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    "standard": "^12.0.1",  
    "tape": "^5.0.0",  
    "uuid": "^6.0.0"  
  }  
}
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var init = require('../')
var rimraf = require('rimraf')
var common = require('./lib/common')

test('license', function (t) {
  init(__dirname, '', {}, function (er, data) {
    if (er)
      throw er

    var wanted = {
      name: 'the-name',
      version: '1.0.0',
      description: '',
      scripts: { test: 'echo "Error: no test specified" && exit 1' },
      license: 'Apache-2.0',
      author: '',
      main: 'basic.js'
    }
    console.log('')
    t.has(data, wanted)
    t.end()
  });
  common.drive(['the-name
', '\n', '\n', '\n', '\n', '\n', 'Apache
', 'Apache-2.0
', 'yes
'])
})
})
test('teardown', function (t) {
    rimraf(__dirname + '/package.json', t.end.bind(t))
})

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var parse = require('spdx-expression-parse');
var correct = require('spdx-correct');

var genericWarning = ( 'license should be ' + 'a valid SPDX license expression (without "LicenseRef"), ' + '"UNLICENSED", or ' + '"SEE LICENSE IN <filename>"' );

var fileReferenceRE = /^SEE LICEN[CS]E IN (.+)$/;

function startsWith(prefix, string) {
    return string.slice(0, prefix.length) === prefix;
}
function usesLicenseRef(ast) {
    if (ast.hasOwnProperty('license')) {
        var license = ast.license;
        return (startsWith('LicenseRef', license) ||
                startsWith('DocumentRef', license));
    } else {
        return (usesLicenseRef(ast.left) ||
                usesLicenseRef(ast.right));
    }
}

module.exports = function(argument) {
    var ast;

    try {
        ast = parse(argument);
    } catch (e) {
        var match
        if (argument === 'UNLICENSED' ||
            argument === 'UNLICENCED') {
            return {
                validForOldPackages: true,
                validForNewPackages: true,
                unlicensed: true
            };
        } else if (match = fileReferenceRE.exec(argument)) {
            return {
                validForOldPackages: true,
                validForNewPackages: true,
                inFile: match[1]
            };
        } else {
            var result = {
                validForOldPackages: false,
                validForNewPackages: false,
                warnings: [genericWarning]
            };
            var corrected = correct(argument);
            if (corrected) {
                result.warnings.push(
                    'license is similar to the valid expression "' + corrected + '"
            }
        }
    }

    return result;
}
if (usesLicenseRef(ast)) {
    return {
        validForNewPackages: false,
        validForOldPackages: false,
        spdx: true,
        warnings: [genericWarning]
    };
} else {
    return {
        validForNewPackages: true,
        validForOldPackages: true,
        spdx: true
    };
}

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
=======================================================================

Copyright (C) 2012 by Jun Woong.

This package is a JavaScript porting of `wcwidth()` implementation [by Markus Kuhn](http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c).

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    "description": "Give me a string and I'll tell you if it's a valid npm package license string",
    "version": "3.0.1",
    "author": {
        "name": "Kyle E. Mitchell",
        "email": "kyle@kemitchell.com",
        "url": "https://kemitchell.com"
    },
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        "spdx-expression-parse": "~1.0.0"
    },
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        "package",
        "validation"
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    "license": "Apache-2.0",
    "repository": {
        "type": "git",
        "url": "git+https://github.com/kemitchell/validate-npm-package-license.js.git"
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    }
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"bugs": {
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"_nodeVersion": "0.12.7",
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"email": "kyle@kemitchell.com"
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"dist": {
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},
"maintainers": [
{
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"email": "kyle@kemitchell.com"
},
{
"name": "othiym23",
"email": "ogd@aoaioxxysz.net"
}
],
"directories": {},
"readme": "ERROR: No README data found!"
}

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# spdx-license-ids

A list of [SPDX license](https://spdx.org/licenses/) identifiers

[**Download JSON**](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids.json)

## Use as a JavaScript Library

[![devDependency Status](https://david-dm.org/shinnn/spdx-license-ids#info=devDependencies)](https://david-dm.org/shinnn/spdx-license-ids#info=devDependencies)

### Installation

#### Package managers

```
```
```
```
```
```
```
```
```
```
```
```
```
```
```
```javascript
const spdxLicenseIds = require('shinnn/spdx-license-ids');
```

#### Standalone

[Download the script file directly.](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/spdx-license-ids-browser.js)

#### API

##### spdxLicenseIds

Type: `Array` of `String`

It returns an array of SPDX license identifiers.

```javascript
const spdxLicenseIds = require('spdx-license-ids'); //=> ['Glide', 'Abstyles', 'AFL-1.1', ... ]
```

#### License

[The Unlicense](./LICENSE).

```javascript
var licenseIDs = require('spdx-license-ids');

function valid(string) {
  return licenseIDs.indexOf(string) > -1;
}
```

// Common transpositions of license identifier acronyms

```javascript
var transpositions = [
  ['APGL', 'AGPL'],
  ['Gpl', 'GPL'],
  ['GLP', 'GPL'],
  ['APL', 'Apache'],
  ['ISD', 'ISC'],
  ['GLP', 'GPL'],
  ['IST', 'ISC'],
  ['Claude', 'Clause'],
  [' or later', '+'],
  [' International', ''],
  ['GNU', 'GPL'],
  ['GUN', 'GPL'],
  ['+', ''],
  ['GNU GPL', 'GPL'],
  ['GNU/GPL', 'GPL'],
```
var TRANSPOSED = 0;
var CORRECT = 1;

// Simple corrections to nearly valid identifiers.

var transforms = [
  // e.g. `mit`
  function(argument) {
    return argument.toUpperCase();
  },
  // e.g. `MIT`
  function(argument) {
    return argument.trim();
  },
  // e.g. `M.I.T.`
  function(argument) {
    return argument.replace(/\./g, "");
  },
  // e.g. `Apache- 2.0`
  function(argument) {
    return argument.replace(/\s+/g, "");
  },
  // e.g. `CC BY 4.0`
  function(argument) {
    return argument.replace(/\s+/g, ";");
  },
  // e.g. `LGPLv2.1`
  function(argument) {
    return argument.replace(/v\', '"");
  },
  // e.g. `Apache 2.0`
  function(argument) {
    return argument.replace(/,\$1\');
  },
  // e.g. `GPL 2`
  function(argument) {
    return argument.replace(/,\$1.0\');
  }];
// e.g. 'Apache Version 2.0'
function(argument) {
  return argument.replace(/\s*(V\.|v\.|Version|version)\s*(\d)/, '-$2');
};

// e.g. 'Apache Version 2'
function(argument) {
  return argument.replace(/\s*(V\.|v\.|Version|version)\s*(\d)/, '-$2.0');
};

// e.g. 'ZLIB'
function(argument) {
  return argument[0].toUpperCase() + argument.slice(1);
};

// e.g. 'MPL/2.0'
function(argument) {
  return argument.replace('/', '-');
};

// e.g. 'GPL-2.0-'
function(argument) {
  return argument.slice(0, argument.length - 1);
};

// e.g. 'GPL2'
function(argument) {
  return argument.replace('/', '-$1.0');
};

// e.g. 'BSD 3'
function(argument) {
  return argument.replace(/\d\$/,'-$2-Clause');
};

// e.g. 'BSD clause 3'
function(argument) {
  return argument.replace(/\d\$/,'-$3-Clause');
};

// e.g. 'BY-NC-4.0'
function(argument) {
  return 'CC-' + argument;}

// e.g. 'BY-NC'
function(argument) {
  return 'CC-' + argument + '-4.0';
};

// e.g. 'Attribution-NonCommercial'
function(argument) {

return argument
    .replace('Attribution', 'BY')
    .replace('NonCommercial', 'NC')
    .replace('NoDerivatives', 'ND')
    .replace(/ \(\d\)/, '-$1')
    .replace(/ ?International\s/, "");
},
// e.g. 'Attribution-NonCommercial'
function(argument) {
    return 'CC-' +
    argument
    .replace('Attribution', 'BY')
    .replace('NonCommercial', 'NC')
    .replace('NoDerivatives', 'ND')
    .replace(/ \(\d\)/, '-$1')
    .replace(/ ?International\s/, ") +
    '.4.0';
}
];

// If all else fails, guess that strings containing certain substrings
// meant to identify certain licenses.
var lastResorts = [
    ['UNLI', 'Unlicense'],
    ['WTF', 'WTFPL'],
    ['2 CLAUSE', 'BSD-2-Clause'],
    ['2-CLAUSE', 'BSD-2-Clause'],
    ['3 CLAUSE', 'BSD-3-Clause'],
    ['3-CLAUSE', 'BSD-3-Clause'],
    ['AFFERO', 'AGPL-3.0'],
    ['AGPL', 'AGPL-3.0'],
    ['APACHE', 'Apache-2.0'],
    ['ARTISTIC', 'Artistic-2.0'],
    ['Affero', 'AGPL-3.0'],
    ['BEER', 'Beerware'],
    ['BOOST', 'BSL-1.0'],
    ['BSD', 'BSD-2-Clause'],
    ['ECLIPSE', 'EPL-1.0'],
    ['FUCK', 'WTFPL'],
    ['GNU', 'GPL-3.0'],
    ['LGPL', 'LGPL-3.0'],
    ['GPL', 'GPL-3.0'],
    ['MIT', 'MIT'],
    ['MPL', 'MPL-2.0'],
    ['X11', 'X11'],
    ['ZLIB', 'Zlib']
];
var SUBSTRING = 0;
var IDENTIFIER = 1;

var validTransformation = function(identifier) {
    for (var i = 0; i < transforms.length; i++) {
        var transformed = transforms[i](identifier);
        if (transformed !== identifier && valid(transformed)) {
            return transformed;
        }
    }
    return null;
};

var validLastResort = function(identifier) {
    var upperCased = identifier.toUpperCase();
    for (var i = 0; i < lastResorts.length; i++) {
        var lastResort = lastResorts[i];
        if (upperCased.indexOf(lastResort[SUBSTRING]) > -1) {
            return lastResort[IDENTIFIER];
        }
    }
    return null;
};

var anyCorrection = function(identifier, check) {
    for (var i = 0; i < transpositions.length; i++) {
        var transposition = transpositions[i];
        var transposed = transposition[TRANSPOSED];
        if (identifier.indexOf(transposed) > -1) {
            var corrected = identifier.replace(
                transposed,
                transposition[CORRECT]
            );
            var checked = check(corrected);
            if (checked !== null) {
                return checked;
            }
        }
    }
    return null;
};

module.exports = function(identifier) {
    identifier = identifier.replace(/\+$/,
    if (valid(identifier)) {
        return identifier;
    }
    var transformed = validTransformation(identifier);
if (transformed !== null) {
    return transformed;
}

transformed = anyCorrection(identifier, function(argument) {
    if (valid(argument)) {
        return argument;
    }
    return validTransformation(argument);
});

if (transformed !== null) {
    return transformed;
}

transformed = validLastResort(identifier);

if (transformed !== null) {
    return transformed;
}

transformed = anyCorrection(identifier, validLastResort);

if (transformed !== null) {
    return transformed;
}

return null;
});

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[ "Glide",
 "Abstyles",
 "AFL-1.1",
 "AFL-1.2",
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 "APL-1.0",
 "Adobe-Glyph",
 "APAFML",
 "Adobe-2006",
 "AGPL-1.0",
 "Afmparse",
 "Aladdin",
 "ADSL",
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}

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/* parser generated by jison 0.4.15 */
/*
Returns a Parser object of the following structure:

Parser: {
    yy: {}
}

Parser.prototype: {
    yy: {},
    trace: function(),
    symbols_: {associative list: name ==> number},
    terminals_: {associative list: number ==> name},
    productions_: [...],
    performAction: function anonymous(yytext, yyleng, yylineno, yy, yystate, $$, _$),
    table: [...],
    defaultActions: {...},
    parseError: function(str, hash),
    parse: function(input),

    lexer: {
        EOF: 1,
        parseError: function(str, hash),
    }
*/
setInput: function(input),
input: function(),
unput: function(str),
more: function(),
less: function(n),
pastInput: function(),
upcomingInput: function(),
showPosition: function(),
test_match: function(regex_match_array, rule_index),
next: function(),
lex: function(),
begin: function(condition),
popState: function(),
_currentRules: function(),
topState: function(),
pushState: function(condition),

options: {
  ranges: boolean           (optional: true ==> token location info will include a .range[] member)
  flex: boolean             (optional: true ==> flex-like lexing behaviour where the rules are tested exhaustively to
  backtrack_lexer: boolean  (optional: true ==> lexer regexes are tested in order and for each matching regex
find the longest match)
}

performAction: function(yy, yy_, $avoiding_name_collisions, YY_START),
rules: [...],
conditions: {associative list: name ==> set},
}
}

token location info (@$, _$, etc.): {
  first_line: n,
  last_line: n,
  first_column: n,
  last_column: n,
  range: [start_number, end_number]       (where the numbers are indexes into the input string, regular zero-based)
}

the parseError function receives a 'hash' object with these members for lexer and parser errors: {
  text:        (matched text)
  token:       (the produced terminal token, if any)
  line:        (yylineno)
}
while parser (grammar) errors will also provide these members, i.e. parser errors deliver a superset of attributes: {
  loc:        (yylloc)
var spdxparse = (function(){
var o=function(k,v,o,l){for(o=o||{},l=k.length;l--;o[k[l]]=v);return o},$V0=[1,5],$V1=[1,6],$V2=[1,7],$V3=[1,4],$V4=[1,9],$V5=[1,10],$V6=[5,14,15,17],$V7=[5,12,14,15,17];
var parser = {trace: function trace() { },
    yy: { },
    symbols_: {
    terminals_: {
    productions_: [0,[3,2], [6,1], [6,2], [6,1], [6,3], [4,1], [4,3], [4,3], [4,3], [4,3], [4,3]],
    performAction: function anonymous(yytext, yyleng, yylineno, yy, yystate /* action[1] */, $$ /* vstack */, _$ /* lstack */) {
        /* this == yyval */
        var $0 = $$.length - 1;
        switch (yystate) {
            case 1:
                return this.$ = $$[0-1];
                break;
            case 2: case 4: case 5:
                this.$ = { license: yytext };
                break;
            case 3:
                this.$ = { license: $$[0-1], plus: true };
                break;
            case 6:
                this.$ = $$[0];
                break;
            case 7:
                this.$ = { exception: $$[0] }; this.$.license = $$[0-2].license;
                if ($$[0-2].hasOwnProperty('plus')) {
                    this.$.plus = $$[0-2].plus;
                }
                break;
            case 8:
                this.$ = { conjunction: 'and', left: $$[0-2], right: $$[0] };
                break;
            case 9:
                this.$ = { conjunction: 'or', left: $$[0-2], right: $$[0] };
                break;

        }
    }/* this == yyval */

    var $0 = $$.length - 1;
    switch (yystate) {
        case 1:
            return this.$ = $$[0-1];
            break;
        case 2: case 4: case 5:
            this.$ = { license: yytext };
            break;
        case 3:
            this.$ = { license: $$[0-1], plus: true };
            break;
        case 6:
            this.$ = $$[0];
            break;
        case 7:
            this.$ = { exception: $$[0] }; this.$.license = $$[0-2].license;
            if ($$[0-2].hasOwnProperty('plus')) {
                this.$.plus = $$[0-2].plus;
            }
            break;
        case 8:
            this.$ = { conjunction: 'and', left: $$[0-2], right: $$[0] };
            break;
        case 9:
            this.$ = { conjunction: 'or', left: $$[0-2], right: $$[0] };
            break;

})
case 10:
  this.$ = $[$0-1]
break;
}
,
table:

[[3:1,4:2,6:3,7:$V0,9:$V1,10:$V2,16:$V3],{1:[3]},{5:[1,8],14:$V4,15:$V5},o($V6,[2,6],[12:[1,11]]),{4:12,6:3,7:$V0,9:$V1,10:$V2,16:$V3},o($V7,[2,4],[11:[1,14]]),{1:[2,1]}],{4:15,6:3,7:$V0,9:$V1,10:$V2,16:$V3},[4:16,6:3,7:$V0,9:$V1,10:$V2,16:$V3],{13:[1,17]},{14:$V4,15:$V5,17:[1,18]},o($V7,[2,3]),{9:[1,19]},o($V6,[2,8]),o(5,15,17,[2,9],14:$V4),o($V6,[2,7]),o($V6,[2,10]),o($V7,[2,5])],
defaultActions: {8:[2,1]},

parseError: function parseError(str, hash) {
  if (hash.recoverable) {
    this.trace(str);
  } else {
    throw new Error(str);
  }
},

parse: function parse(input) {
  var self = this, stack = [0], tstack = [], vstack = [null], lstack = [], table = this.table, yytext = ", yylineno = 0, yyleng = 0, recovering = 0, TERROR = 2, EOF = 1;
  var args = lstack.slice.call(arguments, 1);
  var lexer = Object.create(this.lexer);
  var sharedState = { yy: {} };
  for (var k in this.yy) {
    if (Object.prototype.hasOwnProperty.call(this.yy, k)) {
      sharedState.yy[k] = this.yy[k];
    }
  }
  lexer.setInput(input, sharedState.yy);
  sharedState.yy.lexer = lexer;
  sharedState.yy.parser = this;
  if (typeof lexer.yylloc == 'undefined') {
    lexer.yylloc = {};
  }
  var yyloc = lexer.yylloc;
  lstack.push(yyloc);
  var ranges = lexer.options && lexer.options.ranges;
  if (typeof sharedState.yy.parseError === 'function') {
    this.parseError = sharedState.yy.parseError;
  } else {
    this.parseError = Object.getPrototypeOf(this).parseError;
  }
  function popStack(n) {
    stack.length = stack.length - 2 * n;
    vstack.length = vstack.length - n;
    lstack.length = lstack.length - n;
  }
function lex() {
    var token;
    token = lexer.lex() || EOF;
    if (typeof token !== 'number') {
        token = self.symbols_[token] || token;
    }
    return token;
}
var symbol, preErrorSymbol, state, action, a, r, yyval = {}, p, len, newState, expected;
while (true) {
    state = stack[stack.length - 1];
    if (this.defaultActions[state]) {
        action = this.defaultActions[state];
    } else {
        if (symbol === null || typeof symbol == 'undefined') {
            symbol = lex();
        }
        action = table[state] && table[state][symbol];
    }
    if (typeof action === 'undefined' || !action.length || !action[0]) {
        var errStr = ''; 
        expected = [];
        for (p in table[state]) {
            if (this.terminals_[p] && p > TERROR) {
                expected.push('"' + this.terminals_[p] + '"');
            }
        }
        if (lexer.showPosition) {
            errStr = 'Parse error on line ' + (yylineno + 1) + ':
            ' + lexer.showPosition() + 'Expecting ' + expected.join(', ') + ', got "' + (this.terminals_[symbol] || symbol) + '"
            
            parser.parseError(errStr, {
                text: lexer.match,
                token: this.terminals_[symbol] || symbol,
                line: lexer.yylineno,
                loc: yyloc,
                expected: expected
            });
        } else {
            errStr = 'Parse error on line ' + (yylineno + 1) + ': Unexpected ' + (symbol == EOF ? 'end of input' : '"' + (this.terminals_[symbol] || symbol) + '"') + '
            
            parser.parseError(errStr, {
                text: lexer.match,
                token: this.terminals_[symbol] || symbol,
                line: lexer.yylineno,
                loc: yyloc,
                expected: expected
            });
        }
    } else if (action[0] instanceof Array && action.length > 1) {
        throw new Error('Parse Error: multiple actions possible at state: ' + state + ', token: ' + symbol);
    }
    switch (action[0]) {
    case 1:

}
stack.push(symbol);
vstack.push(lexer.yytext);
llstack.push(lexer.yylloc);
stack.push(action[1]);
symbol = null;
if (!preErrorSymbol) {
    yyleng = lexer.yyleng;
yytext = lexer.yytext;
yylineno = lexer.yylineno;
    yyloc = lexer.yylloc;
    if (recovering > 0) {
        recovering--;
    }
} else {
    symbol = preErrorSymbol;
    preErrorSymbol = null;
}
break;
case 2:
len = this.productions_[action[1]][1];
yyval.$ = vstack[vstack.length - len];
yyval._$ = {
    first_line: lstack[lstack.length - (len || 1)].first_line,
    last_line: lstack[lstack.length - 1].last_line,
    first_column: lstack[lstack.length - (len || 1)].first_column,
    last_column: lstack[lstack.length - 1].last_column
};
if (ranges) {
    yyval._$.range = [
        lstack[lstack.length - (len || 1)].range[0],
        lstack[lstack.length - 1].range[1]
    ];
}
r = this.performAction.apply(yyval, [
    yytext,
    yyleng,
    yylineno,
    sharedState.yy,
    action[1],
    vstack,
    lstack
].concat(args));
if (typeof r !== 'undefined') {
    return r;
}
if (len) {
    stack = stack.slice(0, -1 * len * 2);
vstack = vstack.slice(0, -1 * len);
lstack = lstack.slice(0, -1 * len);
}
stack.push(this.productions_[action[1]][0]);
vstack.push(yyval.$);
lstack.push(yyval_$_$);
newState = table[stack[stack.length - 2]][stack[stack.length - 1]];
stack.push(newState);
break;
case 3:
    return true;
}
}
return true;
});
/* generated by jison-lex 0.3.4 */
var lexer = (function(){
var lexer = {
EOF:1,
parseError:function parseError(str, hash) {
    if (this.yy.parser) {
        this.yy.parser.parseError(str, hash);
    } else {
        throw new Error(str);
    }
},
// resets the lexer, sets new input
setInput:function (input, yy) {
    this.yy = yy || this.yy || {};
    this._input = input;
    this._more = this._backtrack = this.done = false;
    this.yylineno = this.yyleng = 0;
    this.yytext = this.matched = this.match = "";
    this.conditionStack = ['INITIAL'];
    this.yyloc = {
        first_line: 1,
        first_column: 0,
        last_line: 1,
        last_column: 0
    };
    if (this.options.ranges) {
        this.yyloc.range = [0,0];
    }
    this.offset = 0;
    return this;
},

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// consumes and returns one char from the input
input:function () {
  var ch = this._input[0];
  this.yytext += ch;
  this.yyleng++;
  this.offset++;
  this.match += ch;
  this.matched += ch;
  var lines = ch.match(/(?<!\n)?\n\n.*?\n\n/g);
  if (lines) {
    this.yylineno++;
    this.yylloc.last_line++;
  } else {
    this.yylloc.last_column++;
  }
  if (this.options.ranges) {
    this.yylloc.range[1]++;
  }
  this._input = this._input.slice(1);
  return ch;
},

// unshifts one char (or a string) into the input
unput:function (ch) {
  var len = ch.length;
  var lines = ch.split(/(?<!\n)?\n\n/g);

  this._input = ch + this._input;
  this.yytext = this.yytext.substr(0, this.yytext.length - len);
  //this.yyleng -= len;
  this.offset -= len;
  var oldLines = this.match.split(/(?<!\n)?\n\n/g);
  this.match = this.match.substr(0, this.match.length - 1);
  this.matched = this.matched.substr(0, this.matched.length - 1);

  if (lines.length - 1) {
    this.yylineno -= lines.length - 1;
  }
  var r = this.yylloc.range;

  this.yylloc = {
    first_line: this.yylloc.first_line,
    last_line: this.yylineno + 1,
    first_column: this.yylloc.first_column,
    last_column: lines ? (lines.length === oldLines.length ? this.yylloc.first_column : 0)
+ oldLines[oldLines.length - lines.length].length - lines[0].length :
    this.yyloc.first_column - len
};

    if (this.options.ranges) {
        this.yyloc.range = [r[0], r[0] + this.yyleng - len];
    }
    this.yyleng = this.yytext.length;
    return this;
},

// When called from action, caches matched text and appends it on next action
more:function () {
    this._more = true;
    return this;
},

// When called from action, signals the lexer that this rule fails to match the input, so the next matching rule (regex) should be tested instead.
reject:function () {
    if (this.options.backtrack_lexer) {
        this._backtrack = true;
    } else {
        return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. You can only invoke reject() in the lexer when the lexer is of the backtracking persuasion (options.backtrack_lexer = true).\n' + this.showPosition(), {
            text: "",
            token: null,
            line: this.yylineno
        });
    }
    return this;
},

// retain first n characters of the match
less:function (n) {
    this.unput(this.match.slice(n));
},

// displays already matched input, i.e. for error messages
pastInput:function () {
    var past = this.matched.substr(0, this.matched.length - this.match.length);
    return (past.length > 20 ? '...:' : '') + past.substr(-20).replace(/\n/g, "") + past.substr(-20).replace(/\n/g, "");
},

// displays upcoming input, i.e. for error messages
upcomingInput:function () {
    var next = this.match;
if (next.length < 20) {
    next += this._input.substr(0, 20-next.length);
}
return (next.substr(0,20) + (next.length > 20 ? '...' : '')).replace(/
/g, "");

// displays the character position where the lexing error occurred, i.e. for error messages
showPosition:function () {
    var pre = this.pastInput();
    var c = new Array(pre.length + 1).join('-');
    return pre + this.upcomingInput() + '\n' + c + '^
';
}

// test the lexed token: return FALSE when not a match, otherwise return token
test_match:function (match, indexed_rule) {
    var token,
        lines,
        backup;

    if (this.options.backtrack_lexer) {
        // save context
        backup = {
            yylineno: this.yylineno,
            yylloc: {
                first_line: this.yylloc.first_line,
                last_line: this.last_line,
                first_column: this.yylloc.first_column,
                last_column: this.yylloc.last_column
            },
            yytext: this.yytext,
            match: this.match,
            matches: this.matches,
            matched: this.matched,
            yyleng: this.yyleng,
            offset: this.offset,
            _more: this._more,
            _input: this._input,
            yy: this.yy,
            conditionStack: this.conditionStack.slice(0),
            done: this.done
        };
        if (this.options.ranges) {
            backup.yylloc.range = this.yylloc.range.slice(0);
        }
    }
    lines = match[0].match(/(?://|\n?)\n([^/]*\n)/g);
    if (lines) {
this.ylinenoo += lines.length;
}
this.yllloc = {
  first_line: this.yllloc.last_line,
  last_line: this.ylinenoo + 1,
  first_column: this.yllloc.last_column,
  last_column: lines ?
    lines[lines.length - 1].length - lines[lines.length - 1].match(/\r?\n?/) [0].length :
    this.yllloc.last_column + match[0].length
};
this.ytext += match[0];
this.match += match[0];
this.matches = match;
this.ylen = this.ytext.length;
if (this.optionsranges) {
  this.yloc.range = [this.offset, this.offset += this.ylen];
}
this._more = false;
this._backtrack = false;
this._input = this._input.slice(match[0].length);
this.matched += match[0];
token = this.performAction.call(this, this.yy, this, indexed_rule, this.conditionStack[this.conditionStack.length - 1]);
if (this.done && this._input) {
  this.done = false;
}
if (token) {
  return token;
} else if (this._backtrack) {
  // recover context
  for (var k in backup) {
    this[k] = backup[k];
  }
  return false; // rule action called reject() implying the next rule should be tested instead.
}
return false;

// return next match in input
next: function () {
  if (this.done) {
    return this.EOF;
  }
  if (!this._input) {
    this.done = true;
  }
  var token,
match,
tempMatch,
index;
if (!this._more) {
    this.yytext = "";
    this.match = "";
}
var rules = this._currentRules();
for (var i = 0; i < rules.length; i++) {
    tempMatch = this._input.match(this.rules[rules[i]]);
    if (tempMatch && (!match || tempMatch[0].length > match[0].length)) {
        match = tempMatch;
        index = i;
        if (this.options.backtrack_lexer) {
            token = this.test_match(tempMatch, rules[i]);
            if (token !== false) {
                return token;
            } else if (this._backtrack) {
                match = false;
                continue; // rule action called reject() implying a rule MISmatch.
            } else {
                // else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)
                return false;
            }
        } else if (!this.options.flex) {
            break;
        }
    }
}
if (match) {
    token = this.test_match(match, rules[index]);
    if (token !== false) {
        return token;
    }
    // else: this is a lexer rule which consumes input without producing a token (e.g. whitespace)
    return false;
}
if (this._input === ")") {
    return this.EOF;
} else {
    return this.parseError('Lexical error on line ' + (this.yylineno + 1) + '. Unrecognized text.' +
    this.showPosition(), { 
        text: ":",
        token: null,
        line: this.yylineno
    });
}
// return next match that has a token
lex:function lex() {
    var r = this.next();
    if (r) {
        return r;
    } else {
        return this.lex();
    }
},

// activates a new lexer condition state (pushes the new lexer condition state onto the condition stack)
begin:function begin(condition) {
    this.conditionStack.push(condition);
},

// pop the previously active lexer condition state off the condition stack
popState:function popState() {
    var n = this.conditionStack.length - 1;
    if (n > 0) {
        return this.conditionStack.pop();
    } else {
        return this.conditionStack[0];
    }
},

// produce the lexer rule set which is active for the currently active lexer condition state
_currentRules:function _currentRules() {
    if (this.conditionStack.length && this.conditionStack[this.conditionStack.length - 1]) {
        return this.conditions[this.conditionStack[this.conditionStack.length - 1]].rules;
    } else {
        return this.conditions["INITIAL"].rules;
    }
},

// return the currently active lexer condition state; when an index argument is provided it produces the N-th previous
// condition state, if available
topState:function topState(n) {
    n = this.conditionStack.length - 1 - Math.abs(n || 0);
    if (n >= 0) {
        return this.conditionStack[n];
    } else {
        return "INITIAL";
    }
},

// alias for begin(condition)
pushState:function pushState(condition) {
this.begin(condition);
},

// return the number of states currently on the stack
stateStackSize:function stateStackSize() {
    return this.conditionStack.length;
},

options: {},
performAction: function anonymous(yy,yy_,$avoiding_name_collisions,YY_START) {
    var YYSTATE=YY_START;
    switch($avoiding_name_collisions) {
    case 0:return 5;
    break;
    case 1:/* skip whitespace */
    break;
    case 2:return 8;
    break;
    case 3:return 16;
    break;
    case 4:return 17;
    break;
    case 5:return 11;
    break;
    case 6:return 10;
    break;
    case 7:return 9;
    break;
    case 8:return 14;
    break;
    case 9:return 15;
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rules: [/^(?:$)/,/^(?:/s+)!/^(?:/)+/!/^(?:/)(!^(?:/))!/^(?:/):/^(?:DocumentRef-([0-9A-Za-z-+.]++))/!/^(?:LicenseRef-([0-9A-Za-z-+.]++))/!/^(?:AND)/!/^(?:OR)/!/^(?:WITH)/!/^(?:Glide)/!/^(?:Abstyles)/!/^(?:AFL-1.1)/!/^(?:AFL-1.2)/!/^(?:AFL-2.0)/!/^(?:AFL-2.1)/!/^(?:AFL-3.0)/!/^(?:AMPAS)/!/^(?:APL-1.0)/!/^(?:Adobe-Glyph)/!/^(?:APAFML)/!/^(?:Adobe-2006)/!/^(?:AGPL-1.0)/!/^(?:Afmparse)/!/^(?:Aladdin)/!/^(?:ADSL)/!/^(?:AMDPLPA)/!/^(?:ANTLR-PD)/!/^(?:Apache-1.0)/!/^(?:Apache-2.0)/!/^(?:AML)/!/^(?:APL-1.0)/!/^(?:APSL-1.1)/!/^(?:APSL-1.2)/!/^(?:APSL-2.0)/!/^(?:Artistic-1.0)/!/^(?:Artistic-1.0-Perl)/!/^(?:Artistic-1.0-c18)/!/^(?:Artistic-2.0)/!/^(?:AAL)/!/^(?:Bahyph)/!/^(?:Barr)/!/^(?:Beerware)/!/^(?:BitTorrent-1.0)/!/^(?:BitTorrent-1.1)/!/^(?:BSL-1.0)/!/^(?:Borceux)/!/^(?:BSD-2-Clause)/!/^(?:BSD-2-Clause-FreeBSD)/!/^(?:BSD-2-Clause-NetBSD)/!/^(?:BSD-3-Clause)/!/^(?:BSD-3-Clause-Clear)/!/^(?:BSD-4-Clause)/!/^(?:BSD-Protection)/!/^(?:BSD-3-Clause-Attribution)/!/^(?:BSD-4-Clause-UC)/!/^(?:bzip2-1.0.5)/!/^(?:bzip2-1.0.6)/!/^(?:Caldera)/!/^(?:CECILL-1.0)/!/^(?:CECILL-1.1)/!/^(?:CECILL-2.0)/!/^(?:CECILL-B)/!/^(?:CECILL-C)/!/^(?:ClArtistic)/!/^(?:MIT-CMU)/!/^(?:CNRI-Jython)/!/^(?:CNRI-Python)/!/^(?:CNRI-Python/GPL-Compatible)/!/^(?:CPOL-1.02)/!/^(?: CDDL-1.1)/!/^(?: CDDL-1.0)/!/^(?: CPAL-1.0)/!/^(?: CPL-1.0)/!/^(?: CATOSL-1.1)/!/^(?:Condor-1.1)/!/^(?: CC-BY-1.0)/!/^(?: CC-BY-2.0)/!/^(?: CC-BY-2.5)/!/^(?: CC-BY-3.0)/!/^(?: CC-BY-4.0)/!/^(?: CC-BY-ND-1.0)/!/^(?: CC-BY-ND-2.0)/!/^(?: CC-BY-ND-2.5)/!/^(?: CC-BY-ND-3.0)/!/^(?: CC-BY-ND-4.0)/!/^(?: CC-BY-NC-1.0)/!/^(?: CC-BY-NC-2.0)/!/^(?: CC-BY-NC-2.5)/!/^(?: CC-BY-NC-3.0)/!/^(?: CC-BY-NC-4.0)/!/^(?: CC-BY-NC-ND-1.0)/!/^(?: CC-BY-NC-ND-2.0)/!/^(?: CC-BY-NC-ND-2.5)/!/^(?: CC-BY-NC-ND-3.0)/!/^(?: CC-BY-ND-4.0)/!/^(?: CC-BY-NC-4.0)/!/^(?: CC-BY-NC-SA-1.0)/!/^(?: CC-BY-NC-SA-2.0)/!/^(?: CC-BY-NC-SA-2.5)/!/^(?: CC-BY-NC-SA-3.0)/!/^(?: CC-BY-NC-SA-4.0)/!/^(?: CC-BY-SA-1.0)/!/^(?: CC-BY-SA-2.0)/!/^(?: CC-BY-SA-2.5)/!/^(?: CC-BY-SA-3.0)/!/^(?: CC-BY-SA-4.0)/!/^(?: CC-BY-SA-4.0)/!/^(?: CC-BY-SA-4.0)/!/^(?: Crossword)/!/^(?: CUDA-OLP-1.0)/!/^(?: Cube)/!/^(?: D-FSL-1.0)/!/^(?: diffmark)/!/^(?: WTPFL)/!/^(?: DOC)/!/^(?: Doteq)/!/^(?: DSDP)/!/^(?: dvipdfm)/!/^(?: EPL-1.0)/!/^(?: ECL-1.0)/!/^(?: ECL-2.0)/!/^(?: eGenix)/!/^(?: ELF-1.0)/!/^(?: ELF-2.0)/!/^(?: MIT-advertising)/!/^(?: MIT-enna)/!/^(?: Entessa)/!/^(?: ExprL-1.1)/!/^(?: EUDatagrid)/!/^(?: EUPL-1.0)/!/^(?: EUPL-1.1)/!/^(?: Fair)/!/^(?: Fey/feh)/!/^(?: Framework)/!/^(?: Freetype)/!/^(?: FTL)/!/^(?: FSFUL)/!/^(?: FSSFULLR)/!/^(?: Giftware)/!/^(?: GL2PS)/!/^(?: Glux)/!/^(?: GPL-3.0)/!/^(?: GFDL-1.1)/!/^(?: GFDL-1.2)/!/^(?: GFDL-1.3)/!/^(?: GPL-1.0)/!/^(?: GPL-2.0)/!/^(?: GPL-3.0)/!/^(?: LGPL-2.1)/!/^(?: LGPL-3.0)/!/^(?: LGPL-2.0)/!/^(?: gnuplot)/!/^(?: gSOAP-1.3b)/!/^(?: HaskellReport)/!/^(?: HPND)/!/^(?: IBM-pibs)/!/^(?: IPL-1.0)/!/^(?: ICUC)/!/^(?: ImageMagic)/!/^(?: iMatix)/!/^(?: Imlib2)/!/^(?: IJG)/!/^(?: Intel-ACP)/!/^(?: Intel)/!/^(?: IPA)/!/^(?: ISC)/!/^(?: JasPer-2.0)/!/^(?: JSON)/!/^(?: LLPL-1.3a)/!/^(?: LLPL-1.0)/!/^(?: LLPL-1.1)/!/^(?: LLPL-1.2)/!/^(?: LLPL-1.3c)/!/^(?: Latex2e)/!/^(?: BSD-3-Clause-LBNL)/!/^(?: Leptonica)/!/^(?: LGPLLLR)/!/^(?: Libpng)/!/^(?: libtiff)/!/^(?: LGPL-1.02)/!/^(?: LPL-1.0)/!/^(?: MakeIndex)/!/^(?: MTLL)/!/^(?: MS-PL)/!/^(?: MS-RL)/!/^(?: MirOS)/!/^(?: MITNFA)/!/^(?: MIT)/!/^(?: Motosoto)/!/^(?: MPL-1.0)/!/^(?: MPL-1.1)/!/^(?: MPL-2.0)/!/^(?: MPL-2.0-no-copyleft-exception)/!/^(?: mpich2)/!/^(?: Multics)/!/^(?: Mup)/!/^(?: NASA-1.3)/!/^(?: Naumen)/!/^(?: NBPL-1.0)/!/^(?: NetCDF)/!/^(?: NGPL)/!/^(?: NOSL)/!/^(?: NPL-1.0)/!/^(?: NPL-1.1)/!/^(?: Newsletr)/!/^(?: NLPL)/!/^(?: Nokia)/!/^(?: NPOSL-3.0)/!/^(?: Noweb)/!/^(?: NRE)/!/^(?: NTP)/!/^(?: Numix)/!/^(?: OCLC-2.0)/!/^(?: ODbL-1.0)/!/^(?: PDDL-
conditions: {
); return lexer;

if (typeof require !== 'undefined' && typeof exports !== 'undefined') {

  return new Parser;
}():
exports.parser = spdxparse;
exports.Parser = spdxparse.Parser;
exports.parse = function () { return spdxparse.parse.apply(spdxparse, arguments); };
exports.main = function commonjsMain(args) {
    if (!args[1]) {
        console.log('Usage: ' + args[0] + ' FILE');
        process.exit(1);
    }
    var source = require('fs').readFileSync(require('path').normalize(args[1]), "utf8");
    return exports.parser.parse(source);
};
if (typeof module !== 'undefined' && require.main === module) {
    exports.main(process.argv.slice(1));
}

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{  
  "name": "spdx-correct",
  "description": "correct invalid SPDX identifiers",
  "version": "1.0.1",
  "author": {  
    "name": "Kyle E. Mitchell",
    "email": "kyle@kemitchell.com",
    "url": "https://kemitchell.com"
  },
  "dependencies": {  
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  "url": "git+https://github.com/kemitchell/spdx-correct.js.git"
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},
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},
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"_nodeVersion": "0.12.7",
"_npmUser": {
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  "email": "kyle@kemitchell.com"
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  {
    "name": "kemitchell",
    "email": "kyle@kemitchell.com"
  },
  {
    "name": "othiym23",
    "email": "ogd@aoaioxysz.net"
  }
],
"directories": {
  "_resolved": "https://registry.npmjs.org/spdx-correct/-/spdx-correct-1.0.1.tgz",
  "readme": "ERROR: No README data found!"
}
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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript
var assert = require('assert');
var validSPDXExpression = {
    validForNewPackages: true,
    validForOldPackages: true,
    spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
    valid('Apache 2.0'),
    {
```
validForOldPackages: false,
validForNewPackages: false,
warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
  'license is similar to the valid expression "Apache-2.0"'
],
}
);
```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
  valid('(GPL-3.0 OR BSD-2-Clause)'),
  validSPDXExpression
);
```
If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);

var unlicensed = {
  validForNewPackages: true,
  validForOldPackages: true,
  unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```
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Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: npm
Upstream-Contact: https://github.com/isaacs/npm/issues
Source: http://github.com/isaacs/npm
Repackaged for easier copyright maintainability - note also that underscore contains a minified file.
Either external modules are available as debian packages, in which case
they are removed; or they are not good candidates for being packaged
at the moment, in which case they are kept.
Files-Excluded:
node_modules/abbrev/*
node_modules/ansi/*
node_modules/ansicolors/*
node_modules/ansistyles/*
node_modules/archy/*
node_modules/block-stream/*
node_modules/child-process-close/*
node_modules/cmd-shim/*
node_modules/fstream/*
node_modules/fstream-npm/node_modules/fstream-ignore/*
node_modules/github-url-from-git/*
node_modules/glob/*
node_modules/graceful-fs/*
node_modules/inherits/*
node_modules/init/*
node_modules/lockfile/*
node_modules/lru-cache/*
node_modules/mkdirp/*
node_modules/node-gyp/*
node_modules/nopt/*
node_modules/npmlog/*
node_modules/once/*
node_modules/osenv/*
node_modules/read/*
node_modules/read-package-json/*
node_modules/request/*
node_modules/retry/*
node_modules/rimraf/*
node_modules/semver/*
node_modules/sha/*
node_modules/slide/*
node_modules/tar/*
node_modules/text-table/*
node_modules/which/*
node_modules/columnify/node_modules/wcwidth.js/node_modules/underscore/*
Files: *
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node_modules/fstream-npm/*
node_modules/npmconf/*
node_modules/npm-registry-client/*
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node_modules/uid-number/*
node_modules/init-package-json/*
node_modules/init-package-json/node_modules/promzard/*
node_modules/char-spinner/*
node_modules/inflight/*
node_modules/npm-cache-filename/*
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```javascript
var parse = require('./')
var assert = require('assert')
```
var firstAST = {
  left: { license: 'LGPL-2.1' },
  conjunction: 'or',
  right: {
    left: { license: 'BSD-3-Clause' },
    conjunction: 'and',
    right: { license: 'MIT' } }
}

assert.deepEqual(
parse('((LGPL-2.1 OR BSD-3-Clause AND MIT))'),
firstAST)

var secondAST = {
  left: { license: 'MIT' },
  conjunction: 'and',
  right: {
    left: {
      license: 'LGPL-2.1',
      plus: true },
    conjunction: 'and',
    right: { license: 'BSD-3-Clause' } }
}

assert.deepEqual(
parse('(MIT AND (LGPL-2.1+ AND BSD-3-Clause)))'),
secondAST)

---

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"url": "https://github.com/shinnn"
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"pretest": "$\{npm_package_scripts_build\} &\& $\{npm_package_scripts_lint\}",
"test": "node --harmony_arrow_functions test.js",
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"_npmVersion": "2.12.1",
"_nodeVersion": "2.3.3",
"_npmUser": {
  "name": "shinnn",
  "email": "snnskwnb@gmail.com"
},
"maintainers": [null]
var correct = require('spdx-correct');
var assert = require('assert');

assert.equal(correct('mit'), 'MIT')

assert.equal(correct('Apache 2'), 'Apache-2.0')

assert(correct('No idea what license') === null)

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  "name": "spdx-exceptions",
  "description": "list of SPDX standard license exceptions",
  "version": "1.0.3",
  "author": {
    "name": "The Linux Foundation"
  },
  "contributors": [
    {
      "name": "Kyle E. Mitchell",
      "email": "kyle@kemitchell.com",
      "url": "https://kemitchell.com/"
    }
  ],
  "license": "CC-BY-3.0",
  "repository": {
    "type": "git",
    "url": "git+https://github.com/kemitchell/spdx-exceptions.json.git"
  },
  "gitHead": "fdd2c68ac29d4cd891c31e9b60523177eb9b338e",
  "bugs": {
    "url": "https://github.com/kemitchell/spdx-exceptions.json/issues"
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  "homepage": "https://github.com/kemitchell/spdx-exceptions.json#readme",
  "_id": "spdx-exceptions@1.0.3",
  "scripts": {},
  "_shasum": "39ec5ed2cebddf08d180555d7e99c3aff9b4764a",
  "_from": "spdx-exceptions@>=1.0.0 <2.0.0",
  "_npmVersion": "3.3.4",
  "_nodeVersion": "4.1.1"
}
```
1.755 node-retry 0.10.1-1

1.755.1 Available under license:

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1.757 **cyrus-sasl 2.1.26.dfsg1-14ubuntu0.1**

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/* CMU libasasl
 * Tim Martin
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Python was created in the early 1990s by Guido van Rossum at Stichting
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although it includes many contributions from others.

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
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<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.2</td>
<td>2.1.1</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.1.3</td>
<td>2.1.2</td>
<td>2002</td>
<td>PSF</td>
<td>yes</td>
</tr>
<tr>
<td>2.2 and above</td>
<td>2.1.1</td>
<td>2001-now</td>
<td>PSF</td>
<td>yes</td>
</tr>
</tbody>
</table>

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Mersenne Twister
---------------
The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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SipHash24
--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
---------------

The file `Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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zlib

The :mod:`zlib` extension is built using an included copy of the zlib
sources if the zlib version found on the system is too old to be
used for the build):

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

cfuhash
The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

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libmpdec
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The :mod:`_decimal` module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`:

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

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

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1.771 hostname 3.21

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

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

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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
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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 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,
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    b) Give prominent notice with the combined library of the fact
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1.775 pwgen 2.08-1

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1.776 jansson 2.11-r0

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1.777 rsync 3.1.2 2.1ubuntu1

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Corresponding Source fixed on a durable physical medium 
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product 
(including a physical distribution medium), accompanied by a 
written offer, valid for at least three years and valid for as 
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*******************
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History of the software
========================

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 (now Zope Corporation; see 
http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see 
https://www.python.org/psf/) was formed, a non-profit organization created 
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All Python releases are Open Source (see https://opensource.org/ for the Open 
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Mersenne Twister
The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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Floating point exception control
--------------------------------

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Asynchronous socket services

--------------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binasci module to do the actual line-by-line conversion
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  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The `xmlrpc.client` module contains the following notice:

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--------
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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
  Samuel Neves (supercop/crypto_auth/siphash24/little)
  djb (supercop/crypto_auth/siphash24/little2)
  Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
--------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice:

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

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-------

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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

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

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

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

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

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

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subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.788 gettext 0.19.8.1 6ubuntu0.3

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The "source code" for a work means the preferred form of the work
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1.794 python-ldap 3.0.0-1
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Linus Torvalds
/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
   * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
   * interrupts us (except possibly for removal/insertion of the cable?)
   * 10/4/97 - began heavy inline documentation of the code. Corrected typos
   * and spelling mistakes.
   * 10/5/97 - added code to handle PHY interrupts, disable PHY on
   * loss of link, and correctly re-enable PHY when link is
   * re-established. (put back CFG_PHYIE)
   *
   * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
   *
   * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
   *
   * Linux driver for the IDT77201 NICStAR PCI ATM controller.
   * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
   * see init_nicstar() for PHY initialization to change this. This driver
   * expects the Linux ATM stack to support scatter-gather lists
   * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
   *
   * Implementing minimal-copy of received data:
   * IDT always receives data into a small buffer, then large buffers
   * as needed. This means that data must always be copied to create
   * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
   * Fix is simple: make large buffers large enough to hold entire
   * SDU, and leave <small_buffer_data> bytes empty at the start. Then
   * copy small buffer contents to head of large buffer.
   * Trick is to avoid fragmenting Linux, due to need for a lot of large
   * buffers. This is done by 2 things:
   * 1) skb->destructor / skb->atm.recycle_buffer
   *    combined, allow nicstar_free_rx_skb to be called to
   *    recycle large data buffers
   * 2) skb_clone of received buffers
   * See nicstar_free_rx_skb and linearize_buffer for implementation
   *
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============

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- for the initial saa7146 driver and its recent overhaul

- Christian Theiss

- for his work on the initial Linux DVB driver

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- Michael Krufky <mkrufky@linuxtv.org>

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- for the nxt2002 frontend driver

- Jean-Francois Thibert <jeanfrancois@sagetv.com>

- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

- for the or51211 and or51132 frontend drivers, and
  for merging the nxt2002 and nxt2004 modules into a
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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   (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.

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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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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.

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user to the copy of this License. Also, you must do one of these things:

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

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

c) If distribution of the work is made by offering access to copy from a
    designated place, offer equivalent access to copy the above specified
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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,
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one line to give the library's name and an idea of what it does.

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

That's all there is to it!
 ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
 return (strcmp(license, "GPL") == 0
 || strcmp(license, "GPL v2") == 0
 || strcmp(license, "GPL and additional rights") == 0
 || strcmp(license, "Dual BSD/GPL") == 0
 || strcmp(license, "Dual MIT/GPL") == 0
 || strcmp(license, "Dual MPL/GPL") == 0);
}
#endif

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Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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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.

\begin{verbatim}
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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The hypothetical commands `show w' and `show c' should show the
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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 program, if
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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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.. _kernel_licensing:

Linux kernel licensing rules
============================
The Linux Kernel is provided under the terms of the GNU General Public License version 2 only (GPL-2.0), as provided in LICENSES/preferred/GPL-2.0, with an explicit syscall exception described in LICENSES/exceptions/Linux-syscall-note, as described in the COPYING file.

This documentation file provides a description of how each source file should be annotated to make its license clear and unambiguous. It doesn't replace the Kernel's license.

The license described in the COPYING file applies to the kernel source as a whole, though individual source files can have a different license which is required to be compatible with the GPL-2.0::

    GPL-1.0+ : GNU General Public License v1.0 or later
    GPL-2.0+ : GNU General Public License v2.0 or later
    LGPL-2.0 : GNU Library General Public License v2 only
    LGPL-2.0+ : GNU Library General Public License v2 or later
    LGPL-2.1 : GNU Lesser General Public License v2.1 only
    LGPL-2.1+ : GNU Lesser General Public License v2.1 or later

Aside from that, individual files can be provided under a dual license, e.g. one of the compatible GPL variants and alternatively under a permissive license like BSD, MIT etc.
The User-space API (UAPI) header files, which describe the interface of user-space programs to the kernel are a special case. According to the note in the kernel COPYING file, the syscall interface is a clear boundary, which does not extend the GPL requirements to any software which uses it to communicate with the kernel. Because the UAPI headers must be includable into any source files which create an executable running on the Linux kernel, the exception must be documented by a special license expression.

The common way of expressing the license of a source file is to add the matching boilerplate text into the top comment of the file. Due to formatting, typos etc. these "boilerplates" are hard to validate for tools which are used in the context of license compliance.

An alternative to boilerplate text is the use of Software Package Data Exchange (SPDX) license identifiers in each source file. SPDX license identifiers are machine parsable and precise shorthands for the license under which the content of the file is contributed. SPDX license identifiers are managed by the SPDX Workgroup at the Linux Foundation and have been agreed on by partners throughout the industry, tool vendors, and legal teams. For further information see https://spdx.org/

The Linux kernel requires the precise SPDX identifier in all source files. The valid identifiers used in the kernel are explained in the section `License identifiers` and have been retrieved from the official SPDX license list at https://spdx.org/licenses/ along with the license texts.

License identifier syntax
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1. Placement:

The SPDX license identifier in kernel files shall be added at the first possible line in a file which can contain a comment. For the majority of files this is the first line, except for scripts which require the `#!/PATH_TO_INTERPRETER` in the first line. For those scripts the SPDX identifier goes into the second line.

2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type:

C source:// SPDX-License-Identifier: <SPDX License Expression>
C header:// SPDX-License-Identifier: <SPDX License Expression> */
ASM:// SPDX-License-Identifier: <SPDX License Expression> */
scripts:# SPDX-License-Identifier: <SPDX License Expression>
If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the "\*\*/\*" style comment in C header files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

3. Syntax:

A <SPDX License Expression> is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(",")".

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option::

    // SPDX-License-Identifier: GPL-2.0+
    // SPDX-License-Identifier: LGPL-2.1+

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression::

    // SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
    // SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note

Other examples using WITH exceptions found in the kernel are::

    // SPDX-License-Identifier: GPL-2.0 WITH mif-exception
    // SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file. For details see the point 'Exceptions' in the chapter 'License identifiers'.

OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual licenses::
Examples from the kernel for license expressions in dual licensed files::

// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
// SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
// SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
// SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in the kernel, but the original license terms need to remain in effect::

// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT

Another other example where both sets of license terms need to be adhered to is::

// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+

License identifiers
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The licenses currently used, as well as the licenses for code added to the kernel, can be broken down into:

1. _'Preferred licenses':_

Whenever possible these licenses should be used as they are known to be fully compatible and widely used. These licenses are available from the directory::

LICENCES/preferred/

in the kernel source tree.

The files in this directory contain the full license text and `Metatags`. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENCES/preferred/GPL-2.0

Contains the GPL version 2 license text and the required metatags:
Contains the MIT license text and the required metatags

_`Metatags`:

The following meta tags must be available in a license file:

- **Valid-License-Identifier:**

  One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- **SPDX-URL:**

  The URL of the SPDX page which contains additional information related to the license.

- **Usage-Guidance:**

  Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax` guidelines.

- **License-Text:**

  All text after this tag is treated as the original license text

File format examples::

  Valid-License-Identifier: GPL-2.0
  Valid-License-Identifier: GPL-2.0+
  SPDX-URL: https://spdx.org/licenses/GPL-2.0.html
  Usage-Guide:
  To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.
  For 'GNU General Public License (GPL) version 2 only' use:
  SPDX-License-Identifier: GPL-2.0
  For 'GNU General Public License (GPL) version 2 or any later version' use:
  SPDX-License-Identifier: GPL-2.0+
  License-Text:
  Full license text

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SPDX-License-Identifier: MIT
SPDX-URL: https://spdx.org/licenses/MIT.html

Usage-Guide:
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SPDX-License-Identifier: MIT
License-Text:
Full license text

2. Not recommended licenses:

These licenses should only be used for existing code or for importing code from a different project. These licenses are available from the directory::

LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and `Metatags`_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required metatags::

LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the requirements of the `Preferred licenses`_.

File format example::

Valid-License-Identifier: ISC
SPDX-URL: https://spdx.org/licenses/ISC.html
Usage-Guide:
Usage of this license in the kernel for new code is discouraged and it should solely be used for importing code from an already existing project.

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: ISC
License-Text: 
Full license text

3. `Exceptions`:

Some licenses can be amended with exceptions which grant certain rights which the original license does not. These exceptions are available from the directory:

`LICENSES/exceptions/`

in the kernel source tree. The files in this directory contain the full exception text and the required `Exception Metatags`.

Examples:

`LICENSES/exceptions/Linux-syscall-note`

Contains the Linux syscall exception as documented in the COPYING file of the Linux kernel, which is used for UAPI header files.

e.g. `/* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */`:

`LICENSES/exceptions/GCC-exception-2.0`

Contains the GCC 'linking exception' which allows to link any binary independent of its license against the compiled version of a file marked with this exception. This is required for creating runnable executables from source code which is not compatible with the GPL.

`Exception Metatags`:

The following meta tags must be available in an exception file:

- SPDX-Exception-Identifier:

One exception identifier which can be used with SPDX license identifiers.

- SPDX-URL:
The URL of the SPDX page which contains additional information related to the exception.

- SPDX-Licenses:

A comma separated list of SPDX license identifiers for which the exception can be used.

- Usage-Guidance:

Freeform text for usage advice. The text must be followed by correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax` guidelines.

- Exception-Text:

All text after this tag is treated as the original exception text

File format examples::

```
SPDX-Exception-Identifier: Linux-syscall-note
SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+
Usage-Guidance:
  This exception is used together with one of the above SPDX-Licenses to mark user-space API (uapi) header files so they can be included into non GPL compliant user-space application code.
  To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:
  SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
Exception-Text:
  Full exception text
```

```
SPDX-Exception-Identifier: GCC-exception-2.0
SPDX-URL: https://spdx.org/licenses/GCC-exception-2.0.html
SPDX-Licenses: GPL-2.0, GPL-2.0+
Usage-Guidance:
  The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.
  To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:
  SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0
Exception-Text:
  Full exception text
```
All SPDX license identifiers and exceptions must have a corresponding file in the LICENSE subdirectories. This is required to allow tool verification (e.g. checkpatch.pl) and to have the licenses ready to read and extract right from the source, which is recommended by various FOSS organizations, e.g. the FSFE REUSE initiative <https://reuse.software/>. Valid-License-Identifier: X11
SPDX-URL: https://spdx.org/licenses/X11.html
Usage-Guide:
To use the X11 put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation:
   SPDX-License-Identifier: X11
License-Text:

X11 License

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SPDX-License-Identifier: ISC
License-Text:

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Version 1.1

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1.804 distro-info 0.18ubuntu0.18.04.1
1.804.1 Available under license:

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Upstream-Name: distro-info
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1.805 fonts-ubuntu 0.83-2

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UBUNTU FONT LICENCE Version 1.0

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Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision ofCanonical and Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the project.

Using a licence that is compatible with other popular licences is a powerful constraint because of the network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font
project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners’ experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):

* [5]SIL International
* [6]Open Font Library
* [7]Software Freedom Law Center
* [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree. Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is [9]published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.
The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:

* [10]SIL Open Font Licence: When OFL fonts are embedded in a document, the OFL’s terms do not apply to that document. (See [11]OFL-FAQ for details.
* [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.

* [13]Copyright assignment will be required so that the Ubuntu Font Family's licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.
* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.

Ubuntu Font Licence

For the short-term only, the initial licence is the [14]Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as
such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interim. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:

8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

13. https://launchpad.net/~uff-contributors

1.806 sysv-init 2.88dsf-59.10ubuntu1
1.806.1 Available under license:

This package contains the mechanism for executing the right scripts in the right order at bootup/shutdown time, and when changing runlevels. It works through managing symlinks in `/etc/rc?.d`

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On Debian GNU/Linux systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2`. This package contains the scripts that are executed at start and shutdown of Debian systems.

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Public License can be found in `/usr/share/common-licenses/GPL-2'.
This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com>
from pre-distribution sources. Ian Murdock <imurdock@debian.org>
integrated it into the base system maintained it until the end of 1995.
Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support.
In version 2.85 the package was split into three (sysvinit, sysv-rc,
and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site:  ftp.cistron.nl /pub/people/miquels/software
               92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
                92K sysvinit-2.86.tar.gz

Send patches to sysvinit-devel@nongnu.org.

The sysvinit package in Debian is maintained as an alioth project.
The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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The of the start-stop-daemon:

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.

### 1.807 libxau 1.0.8 1

#### 1.807.1 Available under license :

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1.809 dropwizard-forms 1.3.2

1.810 netkit-telnet 0.17-41

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1.811 socat 1.7.3.2

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

Thanks to the following people for their input:
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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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If distribution of object code is made by offering access to copy
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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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.

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

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

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

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1.823 node-nopt 3.0.6-3

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1.824 linux-base 4.5ubuntu1

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1.826 coreutils 8.31
1.827 virt-what 1.18-2
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### 1.835 libsigsegv 2.12-1

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/* List of signals that are sent when an invalid virtual memory address is accessed, or when the stack overflows. */

#define SIGSEGV_FOR_ALL_SIGNALS(var,body) 
{ int var; var = SIGSEGV; { body } var = SIGBUS; { body } }

/* Fault handler information. BSD Unix version.  

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#define SIGSEGV_FAULT_HANDLER_ARGLIST  int sig, int code, void *scp, void *addr 
#define SIGSEGV_FAULT_ADDRESS addr

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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That's all there is to it!

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1.845 node-ini 1.3.4-1
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1.846 xz 5.1.1alpha+20120614 2ubuntu2
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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".)

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

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

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

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1.851 kubernetes-client 3.2.0

1.852 nettle 3.6.7 4

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1.856 libxi 1.7.9-1

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1.857 command-not-found 18.04.5
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It was downloaded via bzr from
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1.858 libapache2-mod-authnz-external 3.3.2-0.1

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include/ruby/oniguruma.h::
regcomp.c::
regenc.c::
regenc.h::
regerror.c::
regexec.c::
regint.h::
regparse.c::
regparse.h::
enc/ascii.c::
enc/big5.c::
enc/cp949.c::
enc/emacs_mule.c::
enc/encdb.c::
enc/euc_jp.c::
enc/euc_kr.c::
enc/euc_tw.c::
enc/gb18030.c::
enc/gb2312.c::
enc/gbk.c::
enc/iso_8859_1.c::
enc/iso_8859_10.c::
enc/iso_8859_11.c::
enc/iso_8859_13.c::
enc/iso_8859_14.c::
enc/iso_8859_15.c::
enc/iso_8859_16.c::
enc/iso_8859_2.c::
enc/iso_8859_3.c::
enc/iso_8859_4.c::
enc/iso_8859_5.c::
enc/iso_8859_6.c::
enc/iso_8859_7.c::
enc/iso_8859_8.c::
enc/iso_8859_9.c::
enc/koi8_r.c::
enc/koi8_u.c::
enc/shift_jis.c::
enc/unicode.c::
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enc/utf_16be.c::
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enc/trans/GB/UCS%GB12345.src::
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enc/trans/GB/UCS%GB2312.src::

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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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vm_dump.c:procstat_vm::

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strftime.c::
include/ruby/st.h::
missing/acosh.c::
missing/alloca.c::
missing/dup2.c::
missing/erf.c::
missing/finite.c::
missing/hypot.c::
missing/isinf.c::
missing/isnan.c::
missing/lgamma_r.c::
missing/memcmp.c::
missing/memmove.c::
missing/strchr.c::
missing/sterror.c::
missing/strerror.c::
missing/tgamma.c::
est/date/date_strftime.c::
est/digest/sha1/sha1.c::
est/digest/sha1/sha1.h::
est/sdbm/_sdbm.c::
est/sdbm/sdbm.c::
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lib/rubygems.rb::
lib/rubygems::
test/rubygems::

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lib/bundler.gemspec::
spec/bundler::
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(d)

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(a)
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```ruby
# frozen_string_literal: true
require 'rubygems/text'
class Gem::Licenses
  extend Gem::Text
  NONSTANDARD = 'Nonstandard'.freeze

  # Software Package Data Exchange (SPDX) standard open-source software
  # license identifiers
  LICENSE_IDENTIFIERS = %w(
    0BSD
    AAL
    ADSL
    AFL-1.1
    AFL-1.2
    AFL-2.0
    AFL-2.1
    AFL-3.0
    AGPL-1.0
    AGPL-3.0
    AGPL-3.0-only
    AGPL-3.0-or-later
    AMDPLPA
    AML
    AMPAS
    ANTLR-PD
    APAFML
    APL-1.0
    APSL-1.0
    APSL-1.1
    APSL-1.2
    APSL-2.0
    Abstyles
    Adobe-2006
    Adobe-Glyph
    Afmparse
    Aladdin
    Aladdin
    Apache-1.0
    Apache-1.1
    Apache-2.0
  )
```
Artistic-1.0
Artistic-1.0-Perl
Artistic-1.0-cl8
Artistic-2.0
BSD-1-Clause
BSD-2-Clause
BSD-2-Clause-FreeBSD
BSD-2-Clause-NetBSD
BSD-2-Clause-Patent
BSD-3-Clause
BSD-3-Clause-Attribution
BSD-3-Clause-Clear
BSD-3-Clause-LBNL
BSD-3-Clause-No-Nuclear-License
BSD-3-Clause-No-Nuclear-License-2014
BSD-3-Clause-No-Nuclear-Warranty
BSD-4-Clause
BSD-4-Clause-UC
BSD-Protection
BSD-Source-Code
BSL-1.0
Bahyph
Barr
Beerware
BitTorrent-1.0
BitTorrent-1.1
Borceux
CATOSL-1.1
CC-BY-1.0
CC-BY-2.0
CC-BY-2.5
CC-BY-3.0
CC-BY-4.0
CC-BY-NC-1.0
CC-BY-NC-2.0
CC-BY-NC-2.5
CC-BY-NC-3.0
CC-BY-NC-4.0
CC-BY-NC-ND-1.0
CC-BY-NC-ND-2.0
CC-BY-NC-ND-2.5
CC-BY-NC-ND-3.0
CC-BY-NC-ND-4.0
CC-BY-NC-SA-1.0
CC-BY-NC-SA-2.0
CC-BY-NC-SA-2.5
CC-BY-NC-SA-3.0
CC-BY-NC-SA-4.0
Entessa
EriPL-1.1
Eurosym
FSFAP
FSFUL
FSFULLR
FTL
Fair
Frameworx-1.0
FreelImage
GFDL-1.1
GFDL-1.1-only
GFDL-1.1-or-later
GFDL-1.2
GFDL-1.2-only
GFDL-1.2-or-later
GFDL-1.3
GFDL-1.3-only
GFDL-1.3-or-later
GL2PS
GPL-1.0
GPL-1.0+
GPL-1.0-only
GPL-1.0-or-later
GPL-2.0
GPL-2.0+
GPL-2.0-only
GPL-2.0-or-later
GPL-2.0-with-GCC-exception
GPL-2.0-with-autoconf-exception
GPL-2.0-with-bison-exception
GPL-2.0-with-classpath-exception
GPL-2.0-with-font-exception
GPL-3.0
GPL-3.0+
GPL-3.0-only
GPL-3.0-or-later
GPL-3.0-with-GCC-exception
GPL-3.0-with-autoconf-exception
Giftware
Glide
Glulxe
HPND
HaskellReport
IBM-pibs
ICU
IJG
IPA
MS-PL
MS-RL
MTLL
MakeIndex
MirOS
Motosoto
Multics
Mup
NASA-1.3
NBPL-1.0
NCSA
NGPL
NLOAD-1.0
NLPL
NOSL
NPL-1.0
NPL-1.1
NPOSL-3.0
NRL
NTP
Naumen
Net-SNMP
NetCDF
Newsletr
Nokia
Noweb
Nunit
OCCT-PL
OCLC-2.0
Odbl-1.0
OFL-1.0
OFL-1.1
OGTSL
OLDAP-1.1
OLDAP-1.2
OLDAP-1.3
OLDAP-1.4
OLDAP-2.0
OLDAP-2.0.1
OLDAP-2.1
OLDAP-2.2
OLDAP-2.2.1
OLDAP-2.2.2
OLDAP-2.3
OLDAP-2.4
OLDAP-2.5
OLDAP-2.6
OLDAP-2.7
OLDAP-2.8
OML
OPL-1.0
OSET-PL-2.1
OSL-1.0
OSL-1.1
OSL-2.0
OSL-2.1
OSL-3.0
OpenSSL
PDDL-1.0
PHP-3.0
PHP-3.01
Plexus
PostgreSQL
Python-2.0
QPL-1.0
Qhull
RHeCos-1.1
RPL-1.1
RPL-1.5
RPSL-1.0
RSA-MD
RSCPL
Rdisc
Ruby
SAX-PD
SCEA
SGI-B-1.0
SGI-B-1.1
SGI-B-2.0
SISSL
SISSL-1.2
SMLNJ
SMPLPL
SNIA
SPL-1.0
SWL
Saxpath
Sendmail
SimPL-2.0
Sleepycat
Spencer-86
Spencer-94
Spencer-99
StandardML-NJ
SugarCRM-1.1.3
TCL
TCP-wrappers
TMate
TORQUE-1.1
TOSL
UPL-1.0
Unicode-DFS-2015
Unicode-DFS-2016
Unicode-TOU
Unlicense
VOSTROM
VSL-1.0
Vim
W3C
W3C-19980720
W3C-20150513
WTFPL
Watcom-1.0
Wsuipe
X11
XFree86-1.1
XSkat
Xerox
Xnet
YPL-1.0
YPL-1.1
ZPL-1.1
ZPL-2.0
ZPL-2.1
Zed
Zend-2.0
Zimbra-1.3
Zimbra-1.4
Zlib
bzip2-1.0.5
bzip2-1.0.6
curl
diffmark
dvipdfm
eCos-2.0
eGenix
gSOAP-1.3b
gnuplot
iMatix
libtiff
mpich2
psfrag
psutils
wxWindows
xinetd
xpp
zlib-acknowledgement
)

# exception identifiers
EXCEPTION_IDENTIFIERS = %w(
  389-exception
  Autoconf-exception-2.0
  Autoconf-exception-3.0
  Bison-exception-2.2
  Bootloader-exception
  CLISP-exception-2.0
  Classpath-exception-2.0
  DigiRule-FOSS-exception
  FLTK-exception
  Fawkes-Runtime-exception
  Font-exception-2.0
  GCC-exception-2.0
  GCC-exception-3.1
  LZMA-exception
  Libtool-exception
  Linux-syscall-note
  Nokia-Qt-exception-1.1
  OCCT-exception-1.0
  Qwt-exception-1.0
  WxWindows-exception-3.1
  eCos-exception-2.0
  freertos-exception-2.0
  gnu-javamail-exception
  i2p-gpl-java-exception
  mif-exception
  openvpn-openssl-exception
  u-boot-exception-2.0
)

REGEXP = %r{
  \A
  (#{Regexp.union(LICENSE_IDENTIFIERS)}
  \+?
  (\s WITH \s #{Regexp.union(EXCEPTION_IDENTIFIERS)})?
  |#{NONSTANDARD}
  )\Z
}ox

def self.match?(license)
def self.suggestions(license)
    by_distance = LICENSE_IDENTIFIERS.group_by do |identifier|
        levenshtein_distance(identifier, license)
    end
    lowest = by_distance.keys.min
    return unless lowest < license.size
    by_distance[lowest]
end

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RSpec.describe "bundle licenses" do
  before :each do
    install_gemfile <<-G
      source "file://#{gem_repo1}"
      gem "rails"
      gem "with_license"
    G
  end

  it "prints license information for all gems in the bundle" do
    bundle "licenses"

    loaded_bundler_spec = Bundler.load.specs["bundler"]
    expected = if !loaded_bundler_spec.empty?
      loaded_bundler_spec[0].license
    else
      "Unknown"
    end

    expect(out).to include("bundler: #{expected}")
    expect(out).to include("with_license: MIT")
  end

  it "performs an automatic bundle install" do
    gemfile <<-G
      source "file://#{gem_repo1}"
      gem "rails"
      gem "with_license"
      gem "foo"
    G

    bundle install
  end
end
bundle "config auto_install 1"
bundle :licenses
expect(out).to include("Installing foo 1.0")
end
end

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* He had maintained the VMS support on 2003-2004.

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* wrote rdoc for Fiber

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* net/pop
* net/smtp
* racc
* ripper
* strscan

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arton
* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.
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* Added IO#pread and IO#pwrite.

== B

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Dirkjan Bussink
* a patch for date.rb

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* documentation
* a patch for irb

== C

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* a patch for configure.in, net/telnet

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* a patch for test/ruby/test_symbol.rb

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* patches for set.rb

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* ruby_strtod is based on his paper.

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* M17N

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* patches for rdoc

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* did much upon YARV compiler.

erlercw
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* a patch for tracer.rb

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* #4415 parallel unit/test

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* He wrote and is the maintainer of
date
* parsedate (1.8)
* He ported rational.rb and complex.rb, which 1.8 contains, into rational.c and complex.c of 1.9.

== G

David M. Gay
* ruby_strtod
Florian Gilcher
* documentation

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* He wrote benchmark.rb
* He is the maintainer of:
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  * open3

GOTOU, Yuuzou (gotoyuzo)
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* committer
* He wrote the faster implementation of CSV and is the maintainer of csv.
* Wrote documentation for rdoc

== H

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* fixed memory leaks (marshal.c, string.c)

Shin-ichi HARA
* the developer and the sysop of ruby-{dev,list,core,talk} archive.
* a patch for numeric.c

Chris Heath (traumdeutung)
* a patch for proc.c

HIROKAWA Hisashi
* fixed socket/socket.c

Daniel Hob
* He wrote:
  * SMTP-TLS support for net/smtp.
  * POP3S support

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* committer
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* ri
* rubygems

Erik Hollensbe
* a patch for delegate.rb

Johan Holmberg
* a patch for dir.c
* documentation

Erik Huelsmann

Dae San Hwang
* built a continuous integration environment on OpenSolaris.

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* a patch for logger.rb

"incorporate"
* a patch for sprintf.c

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* He wrote and is the maintainer of:
  * cmath.rb (1.9)
  * complex.rb (1.8)
  * e2mmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
  * sync.rb
  * shell/*
  * thwait.rb
  * tracer.rb

== J

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* missing/dup2.c

Alan Johnson
* a patch for net/ftp
Lyle Johnson
* patches for nkf, BigDecimal, numeric.c

== K

Yoshihiro Kambayashi
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* He wrote supports for some encodings.

Yutaka Kanemoto
* patches for common.mk, AIX AF_INET6 support

Motoyuki Kasahara
* He wrote getoptlong.rb

Masahiro Kawato
* a patch for shellwords.rb

Wataru Kimura
* a patch for configure.in

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* patch for make help.

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* a patch for optparse.rb

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* He is the maintainer of BigDecimal

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* He had maintained the bcc32 support in 2004.

Kornelius "murphy" Kalnbach
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Hongli Lai
* improved pstore.rb
* patch for tool/file2lastrev.rb.

raspberry lemon
* a patch for webrick/httpproxy.rb.

Christian Loew
* a patch for fileutils.rb

== M

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  * net/ftp
  * net/imap

Stephan Maka (mathew)
* documentation

Yukihiro Matsumoto (matz)
* Matz -- the founder, language designer of Ruby.
* committer
* Ruby itself, most of Ruby.
* He is the maintainer of:
  * singleton
  * timeout
  * gdbm
  * sdbm

Konrad Meyer
* documentation

Mib Software
* missing/vsnprintf.c

Todd C. Miller
* missing/strlcat.c
* missing/strlcpy.c

MIYASAKA, Masaru
* a patch for cgi.rb

Stefan Monnier
* regex.c was fixed with based on his Emacs21 patch.

Marcel Moolenaar
* patches for eval.c and gc.c.

moonwolf
* a patch for REXML, xmlrpc

Hiroshi Moriyama
* a patch for yaml.

Kyosuke Morohashi
* a patch for gem_prelude.rb

Kenta Murata
* patches for json, bignum.c

Akinori MUSHA (knu)
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* He wrote and is the maintainer of:
  * abbrev.rb
  * generator (1.8)
  * enumerator (1.8)
  * set
  * ipaddr.rb
  * digest/*
  * syslog
* He is the branch maintainer of ruby_1_8, the release manager of 1.8 series.

== N

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* He is the maintainer of tk/*

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* a.k.a. the "patch monster"
* He wrote and is the maintainer of:
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  * stringio
  * io/wait
  * iconv

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* patches for util.c

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* working at GC

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* He is the maintainer of:
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  * logger.rb
  * soap/* (1.8)
  * wsdl/* (1.8)
  * xsd/* (1.8)

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* He is the maintainer of mswin32 and mswin64 support.

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* Did much upon m17n.
* He is the maintainer of:
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  * nkf

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* He is the maintainer of
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  * gserver (1.8)

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* wrote a patch for CVE-2010-0541

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* a.k.a. znz

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* misc/rdebug.el

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* a patch for socket

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* He is a sysop of the Ruby Reference Manual Renewal Project.
* fixed ipaddr.rb, ext/etc

Haruhiko Okumura
* some of missing/* is based on his book:
  * missing/erf.c
  * missing/lgamma_r.c
  * missing/tgamma.c

OMAE, jun
* a patch for debug.rb

Eugene Ossintsev
* documentation

== P

Heesob Park
* a patch for win32/win32.c.

pegacorn
* a patch for instruby.rb

== Q

== R

Gaston Ramos
* documentation

The Regents of the University of California
* missing/crypt.c
* missing/vsnprintf.c

Sam Roberts
* patch for socket
* documentation

Michal Rokos (michal)
* committer
* He was the maintainer of DJGPP support.

rubikitch
* a patch for io.c

Marcus Rueckert
* a patch for mkconfig.rb.

Run Paint Run Run
* patch for enc/unicode.c
* documentation

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* He wrote and is the maintainer of REXML.

== S

Kazuo Saito (ksaito)
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* M17N

Tadashi Saito
* patches for test/ruby/test_math.rb, thread_*_.c, bignum.c
* working upon BigDecimal.
* did much upon documentation

Masahiro Sakai
* a patch for io.c

Laurent Sansonetti
* a patch for tool/ytab.sed

Jeff Saracco
* documentation

Koichi Sasada (ko1)
* committer
* He wrote YARV.

Hugh Sasse
* a patch for net/http
* documentation

Charlie Savage
* a patch for win32/Makefile.sub

Michael Scholz
* a patch for ruby-mode.el

Arthur Schreiber
* patch for net/http and rdoc.

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* He wrote and is the maintainer of:
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  * erb
  * rinda

Roman Shterenzon
* a patch for open-uri.

Kent Sibilev

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* committer

John W. Small
* He wrote gserver.rb

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* She is the maintainer of man/* manual pages and is the release manager of 1.9 series.
* She wrote prime.rb.
* A developer and a sysop of redmine.ruby-lang.org.

SOUMA, Yutaka
* a patch for pack.c.

Tatsuki Sugiura
* WebDAV support for net/http

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sheepman
* patches for ruby.c, thread.c, stringio, enum.c, webrick, net/http

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* committer

Kirill A. Shutemov
* a patch for parse.y
Darren Smith
* a patch for golf_prelude.rb

Richard M. Stallman
* missing/aloca.c

Robin Stocker
* documentation

Joshua Stowers
* a patch for array.c

Marcus Stollsteimer (stomar)
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* a maintainer of www.ruby-lang.org
* patches for cgi (HTML5 tag maker), numeric.c, bigdecimal, ostruct.rb, prime.rb, and others
* documentation

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* a patch for compile.c

Masashi Sumi
* improved net/pop.rb

Eric Sunshine
* NeXT OpenStep, Rhapsody support

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* He wrote and is the maintainer of rss/*

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* BigDecimal

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* He is the maintainer of readline.

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* He was the maintainer of test/unit, runit, rubyunit.
TANAKA, Akira (akr)
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* Did much upon m17n.
* And he is the maintainer of:
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  * pathname
  * pp
  * resolv-replace
  * resolv
  * time
  * tsort

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* committer
* openssl

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* a patch for socket.c IRIX support.

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* a.k.a. the Pragmatic Programmer.
* He wrote rdoc.

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* patches for win32 support

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* a patch for cgi.rb

Jakub Travnik
* a patch for eval.c

Tom Truscott
* missing/crypt.c

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* a patch for uri

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* He was the maintainer of WinCE support.

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* He is the maintainer of zlib

Hajimu UMEMOTO
* He wrote ipaddr.rb

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* and is the release manager of 1.8.x-pXXX.

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* tmpdir
* un
* Win32API

WATANABE, Tetsuya
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* committer
* He wrote Rake.

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* fixed misc/ruby-mode.el.

why the lukky stiff (why)
* committer
* He is the maintainer of syck

Caley Woods
* documentation

Gary Wright
* documentation

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== Y

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* patches for enum.c, parse.y
* documentation

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* committer

Hirotaka Yoshioka
* a patch for improving SEGV handling

== Z

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* a patch for io.c

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* committer
* He is the maintainer for Symbian OS.

Chiyuan Zhang
* a patch for misc/ruby-mode.el.

Dee Zsombor (zunda)
* a patch for thread_pthread.c
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License Mixing
==============

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

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

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html) licensed code is not allowed to be linked with code licensed under the [Original BSD license](https://spdx.org/licenses/BSD-4-Clause.html) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an
This particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is very liberal.

## OpenSSL

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

## GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](https://www.gnu.org/licenses/lgpl.html) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

## WolfSSL

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## libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## c-ares

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

## zlib

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

## MIT Kerberos

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

## Heimdal

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

## GNU GSS

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

## libidn

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## OpenLDAP

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

## libssh2

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

### 1.874 debian-archive-keyring 2017.5

#### 1.874.1 Available under license:

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Version 2, June 1991

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1.880 pcre2 10.32-5
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1.884 systemd-shim 237 3ubuntu10.31
1.884.1 Available under license :

From: Michael Biebl <biebl@debian.org>
Date: Sun, 17 Dec 2017 00:31:20 +0100
Subject: Revert "udev-rules: Permission changes for /dev/dri/renderD***
This would introduce a new system group "render". As the name is rather generic, this needs further discussion first, so revert this change for now.

This reverts commit 4e15a7343cb389e97f3eb4f49699161862d8b8b2.
---
meson.build                    | 2 --
meson_options.txt              | 2 --
rules/50-udev-default.rules.in | 5 +----
src/login/70-uaccess.rules     | 2 +-.
4 files changed, 2 insertions(+), 9 deletions(-)

diff --git a/meson.build b/meson.build
index c734561..b9e59ec 100644
--- a/meson.build
+++ b/meson.build
@@ -753,7 +753,6 @@ if get_option('wheel-group')
 endif
-
+subs.set('GROUP_RENDER_MODE', get_option('group-render-mode'))

 kill_user_processes = get_option('default-kill-user-processes')
 conf.set10('KILL_USER_PROCESSES', kill_user_processes)
@@ -2741,7 +2740,6 @@ status = [
     'minimum container UID base: @0@.format(container_uid_base_min),
     'maximum container UID base: @0@.format(container_uid_base_max),
     '/dev/kvm access mode: @0@.format(get_option('dev-kvm-mode'))),
-    'render group access mode: @0@.format(get_option('group-render-mode'))),
    'certificate root directory: @0@.format(get_option('certificate-root'))),
    'support URL: @0@.format(support_url),
    'nobody user name: @0@.format(nobody_user),
diff --git a/meson_options.txt b/meson_options.txt
index 39822d6..b1d035f 100644
--- a/meson_options.txt
+++ b/meson_options.txt
@@ -177,8 +177,6 @@ option('nobody-group', type : 'string',
     option('dev-kvm-mode', type : 'string', value : '0666',
             description : '/dev/kvm access mode')
-    option('group-render-mode', type : 'string', value : '0666',
-           description : 'Access mode for devices owned by render group (e.g. /dev/dri/renderD*, /dev/kfd).')
    option('default-kill-user-processes', type : 'boolean',
            description : 'the default value for KillUserProcesses= setting')
    option('gshadow', type : 'boolean',
diff --git a/rules/50-udev-default.rules.in b/rules/50-udev-default.rules.in
index bd4c215..549a4f0 100644
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2003-2004 Greg Kroah-Hartman <greg@kroah.com>
2004 Chris Friesen <chris_friesen@sympatico.ca>
2004, 2009, 2010 David Zeuthen <david@fubar.dk>
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2007 Hannes Reinecke <hare@suse.de>
2009 Canonical Ltd.
2009 Scott James Remnant <scott@netsplit.com>
2009 Martin Pitt <martin.pitt@ubuntu.com>
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2014 David Herrmann <dh.herrmann@gmail.com>
2014 Carlos Garnacho <carlosg@gnome.org>
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Files: src/udev/udev-ctrl.c
src/udev/udevadm-hwdb.c
src/udev/udev-builtin.c
src/udev/udev-builtin-net_id.c
src/udev/udev-builtin-net_setup_link.c
src/udev/udev-builtin-hwdb.c
src/udev/udev-builtin-btrfs.c
src/udev/udev-builtin-keyboard.c
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1.885 profiler 1.0.2

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1.887 accounts-service 0.6.45 1ubuntu1

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1.890 python-defaults 3.5.1 3
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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.
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.

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

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

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<table>
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<th>Release</th>
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<th>Year</th>
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<th>GPL-</th>
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from  compatible? (1) compatible? (2)

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
1.2  1.6  2001  CNRI  no
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
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2.2.4  2.2.2  2004  PSF  yes
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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
2.5  2.4  2006  PSF  yes
2.7  2.6  2010  PSF  yes

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 *
 * @(#)mman.h 8.2 (Berkeley) 1/9/95
 */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
#define TARGET_FREEBSD_MAP_NOSYNC 0x0800 /* page to but do not sync underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK 0x1ff7


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  *
  * @(#)mman.h 8.2 (Berkeley) 1/9/95
  */
#define TARGET_NETBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
define TARGET_NETBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within break */
define TARGET_NETBSD_MAP_WIRED 0x0800 /* mlock() mapping when it is established */
define TARGET_NETBSD_MAP_STACK 0x2000 /* allocated from memory, swap space (stack) */
define TARGET_NETBSD_MAP_FLAGMASK 0x3ff7

/* $NetBSD: mman.h,v 1.11 1995/03/26 20:24:23 jtc Exp $ */

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*
* @(#)mman.h  8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7
/ *
* System call numbers.
*
* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/

#define TARGET_FREEBSD_NR_syscall 0
#define TARGET_FREEBSD_NR_exit 1
#define TARGET_FREEBSD_NR_fork 2
#define TARGET_FREEBSD_NR_read 3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open 5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait 7
/ * 8 is old creat */
#define TARGET_FREEBSD_NR_link 9
#define TARGET_FREEBSD_NR_unlink 10
/ * 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir    13
#define TARGET_FREEBSD_NR_mknod 14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
#define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
  /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid    20
#define TARGET_FREEBSD_NR_mount 21
#define TARGET_FREEBSD_NRUnmount   22
#define TARGET_FREEBSD_NR_setuid 23
#define TARGET_FREEBSD_NR_getuid 24
#define TARGET_FREEBSD_NR_geteuid 25
#define TARGET_FREEBSD_NR_ptrace 26
#define TARGET_FREEBSD_NR_recmmsg 27
#define TARGET_FREEBSD_NR_sendmsg 28
#define TARGET_FREEBSD_NR_recvfrom 29
#define TARGET_FREEBSD_NR_accept 30
#define TARGET_FREEBSD_NR_getpeername 31
#define TARGET_FREEBSD_NR_getsockname 32
#define TARGET_FREEBSD_NR_access 33
#define TARGET_FREEBSD_NR_chflags 34
#define TARGET_FREEBSD_NR_fchflags 35
#define TARGET_FREEBSD_NR_sync 36
#define TARGET_FREEBSD_NR_kill 37
  /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
  /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
  /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
  /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
  /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot    61
    /* 62 is old fstat */
    /* 63 is old getkerninfo */
    /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
    /* 67 is obsolete vread */
    /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk  69
#define TARGET_FREEBSD_NR_sstk  70
    /* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
    /* 76 is obsolete vhangup */
    /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgrp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
    /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
    /* 87 is old gethostname */
    /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2  90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
    /* 98 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
    /* 101 is old send */
    /* 102 is old recv */
    /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind  104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
    /* 107 is obsolete vtimes */
    /* 108 is old sigvec */
    /* 109 is old sigblock */
    /* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage  117
#define TARGET_FREEBSD_NR_getsockopt    118
#define TARGET_FREEBSD_NR_readv  120
#define TARGET_FREEBSD_NR_writev    121
#define TARGET_FREEBSD_NR_settimeofday  122
#define TARGET_FREEBSD_NR_fchown    123
#define TARGET_FREEBSD_NR_setreuid  126
#define TARGET_FREEBSD_NR_setregid  127
#define TARGET_FREEBSD_NR_rename    128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo    132
#define TARGET_FREEBSD_NR_sendto    133
#define TARGET_FREEBSD_NR_shutdown  134
#define TARGET_FREEBSD_NR_socketpair    135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes    138
/* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime   140
/* 141 is old getpeername */
/* 142 is old gethostid */
/* 143 is old sethostid */
/* 144 is old getrlimit */
/* 145 is old setrlimit */
/* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg    146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid    147
#define TARGET_FREEBSD_NR_quotactl  148
/* 149 is old quota */
/* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall   154
#define TARGET_FREEBSD_NR_nfssvc    155
/* 156 is old getdirententries */
#define TARGET_FREEBSD_NR_freebsd4_statfs  157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs  158
#define TARGET_FREEBSD_NR_lgetfh    160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname    162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semssys 169
#define TARGET_FREEBSD_NR_msgssys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysct1 202
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___sysct1 202
#define TARGET_FREEBSD_NR_freebsd7___semct1 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7___msgct1 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmct1 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_gettime 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanoseconds 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_isetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchown 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_aio_read 318
#define TARGET_FREEBSD_NR_aio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
   /* 322 is obsolete thr_sleep */
   /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kidsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask 340
#define TARGET_FREEBSD_NR_sigsuspend 341
#define TARGET_FREEBSD_NR_freebsd4_sigaction 342
#define TARGET_FREEBSD_NR_sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_set_fd 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_extattr_delete_fd 359
#define TARGET_FREEBSD_NR_extattr___waitcomplete 360
#define TARGET_FREEBSD_NR___setugid 361
#define TARGET_FREEBSD_NR_getresuid 362
#define TARGET_FREEBSD_NR_getresgid 363
#define TARGET_FREEBSD_NR_kqueue 364
#define TARGET_FREEBSD_NR___waitcomplete 365
#define TARGET_FREEBSD_NR_extattr___set_file 366
#define TARGET_FREEBSD_NR_extattr___set_fd 367
#define TARGET_FREEBSD_NR_extattr___delete_file 368
#define TARGET_FREEBSD_NR_extattr___delete_fd 369
#define TARGET_FREEBSD_NR___setuid 370
#define TARGET_FREEBSD_NR___setgid 371
#define TARGET_FREEBSD_NR___setns 372
#define TARGET_FREEBSD_NR___setpgid 373
#define TARGET_FREEBSD_NR___setpgid 374
#define TARGET_FREEBSD_NR_eaccess 376
#define TARGET_FREEBSD_NR_afs3_syscall 377
#define TARGET_FREEBSD_NR_nmount 378
#define TARGET_FREEBSD_NR__mac_get_proc 384
#define TARGET_FREEBSD_NR__mac_set_proc 385
#define TARGET_FREEBSD_NR__mac_get_fd 386
#define TARGET_FREEBSD_NR__mac_get_file 387
#define TARGET_FREEBSD_NR__mac_set_fd 388
#define TARGET_FREEBSD_NR__mac_set_file 389
#define TARGET_FREEBSD_NR_kenv 390
#define TARGET_FREEBSD_NR_lchflags 391
#define TARGET_FREEBSD_NR_uuidgen 392
#define TARGET_FREEBSD_NR_sendfile 393
#define TARGET_FREEBSD_NR_mac_syscall 394
#define TARGET_FREEBSD_NR_getfsstat 395
#define TARGET_FREEBSD_NR_statfs 396
#define TARGET_FREEBSD_NR_fstatfs 397
#define TARGET_FREEBSD_NR_fhstatfs 398
#define TARGET_FREEBSD_NR_ksem_close 400
#define TARGET_FREEBSD_NR_ksem_post 401
#define TARGET_FREEBSD_NR_ksem_wait 402
#define TARGET_FREEBSD_NR_ksem_trywait 403
#define TARGET_FREEBSD_NR_ksem_init 404
#define TARGET_FREEBSD_NR_ksem_open 405
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR__mac_get_pid 409
#define TARGET_FREEBSD_NR__mac_get_link 410
#define TARGET_FREEBSD_NR__mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR__mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR__acl_get_link 425
#define TARGET_FREEBSD_NR__acl_set_link 426
#define TARGET_FREEBSD_NR__acl_delete_link 427
#define TARGET_FREEBSD_NR__acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_thrw aclcheck_link 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR__umtx_lock 434
#define TARGET_FREEBSD_NR__umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR__umtx_lock     437
#define TARGET_FREEBSD_NR__umtx_unlock   438
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend   442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_sigqueue 456
#define TARGET_FREEBSD_NR_kmq_open 457
#define TARGET_FREEBSD_NR_kmq_setattr 458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR__umtx_op 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid  486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat  489
#define TARGET_FREEBSD_NR_fchmodat  490
#define TARGET_FREEBSD_NR_fchownat  491
#define TARGET_FREEBSD_NR_fexecve  492
#define TARGET_FREEBSD_NR_fstatat  493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat  495
#define TARGET_FREEBSD_NR_mkdirat  496
#define TARGET_FREEBSD_NR_mkfifoat  497
#define TARGET_FREEBSD_NR_mknodat  498
#define TARGET_FREEBSD_NR_openat  499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
#define TARGET_FREEBSD_NR___semctl 510
#define TARGET_FREEBSD_NR_msgctl 511
#define TARGET_FREEBSD_NR_shmctl 512
#define TARGET_FREEBSD_NR_lpathconf 513
#define TARGET_FREEBSD_NR_cap_new  514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter 516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork 518
#define TARGET_FREEBSD_NR_pdkill 519
#define TARGET_FREEBSD_NR_pdgetpid 520
#define TARGET_FREEBSD_NR_pselect 522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct 525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
#define TARGET_FREEBSD_NR_posix_fallocate 530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL 532

/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp */
/*
 * System call numbers.
 *
 * created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
 */

#define TARGET_NETBSD_NR_syscall     0
#define TARGET_NETBSD_NR_exit        1
#define TARGET_NETBSD_NR_fork        2
#define TARGET_NETBSD_NR_read        3
#define TARGET_NETBSD_NR_write       4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
#define TARGET_NETBSD_NR_compat_43_ocreat 8
#define TARGET_NETBSD_NR_link        9
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
#define TARGET_NETBSD_NR_chown       16
#define TARGET_NETBSD_NR_break       17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_oseek 19
#define TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_compat_40_mount 21
#define TARGET_NETBSD_NR_unmount     22
#define TARGET_NETBSD_NR_setuid      23
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_geteuid     25
#define TARGET_NETBSD_NR_ptrace      26
#define TARGET_NETBSD_NR_recvmsg     27
#define TARGET_NETBSD_NR_sendmsg     28
#define TARGET_NETBSD_NR_recvfrom    29
#define TARGET_NETBSD_NR_accept      30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access      33
#define TARGET_NETBSD_NR_chflags     34
#define TARGET_NETBSD_NR_fchflags    35
#define TARGET_NETBSD_NR_sync        36
#define TARGET_NETBSD_NR_kill        37
#define TARGET_NETBSD_NR_compat_43_stat43 38
#define TARGET_NETBSD_NR_getppid     39
#define TARGET_NETBSD_NR_compat_43_lstat43 40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe 42
#define TARGET_NETBSD_NR_getegid 43
#define TARGET_NETBSD_NR_profil 44
#define TARGET_NETBSD_NR_ktrace 45
#define TARGET_NETBSD_NR_compat_13_sigaction13 46
#define TARGET_NETBSD_NR_getgid 47
#define TARGET_NETBSD_NR_getgrent 47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13 48
#define TARGET_NETBSD_NR___getlogin 49
#define TARGET_NETBSD_NR___setlogin 50
#define TARGET_NETBSD_NR_acct 51
#define TARGET_NETBSD_NR_compat_13_sigpending13 52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13 53
#define TARGET_NETBSD_NR_ioctl 54
#define TARGET_NETBSD_NR_compat_12_oreboot 55
#define TARGET_NETBSD_NR_revoke 56
#define TARGET_NETBSD_NR_symlink 57
#define TARGET_NETBSD_NR_readlink 58
#define TARGET_NETBSD_NR_execve 59
#define TARGET_NETBSD_NR_umask 60
#define TARGET_NETBSD_NR_chroot 61
#define TARGET_NETBSD_NR_compat_43_fstat43 62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo 63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize 64
#define TARGET_NETBSD_NR_compat_12_msync 65
#define TARGET_NETBSD_NR_vfork 66
#define TARGET_NETBSD_NR_sbrk 69
#define TARGET_NETBSD_NR_sstk 70
#define TARGET_NETBSD_NR_compat_43_ommap 71
#define TARGET_NETBSD_NR_vadvise 72
#define TARGET_NETBSD_NR_munmap 73
#define TARGET_NETBSD_NR_mprotect 74
#define TARGET_NETBSD_NR_madvise 75
#define TARGET_NETBSD_NR_mincore 78
#define TARGET_NETBSD_NR_getgroups 79
#define TARGET_NETBSD_NR_setgroups 80
#define TARGET_NETBSD_NR_getitimer 83
#define TARGET_NETBSD_NR_compat_43_owait 84
#define TARGET_NETBSD_NR_compat_12_oswapon 85
#define TARGET_NETBSD_NR_getitimer 86
#define TARGET_NETBSD_NR_compat_43_ogethostname 87
#define TARGET_NETBSD_NR_compat_43_osethostname 88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize 89
#define TARGET_NETBSD_NR_dup2 90
#define TARGET_NETBSD_NR_fcntl 92
#define TARGET_NETBSD_NR_select 93
#define TARGET_NETBSD_NR_fsync 95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket 97
#define TARGET_NETBSD_NR_connect 98
#define TARGET_NETBSD_NR_compat_43_accept 99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_send 101
#define TARGET_NETBSD_NR_compat_43_recv 102
#define TARGET_NETBSD_NR_compat_13_sigtimers 103
#define TARGET_NETBSD_NR_bind 104
#define TARGET_NETBSD_NR_setsockopt 105
#define TARGET_NETBSD_NR_listen 106
#define TARGET_NETBSD_NR_compat_43_socket 108
#define TARGET_NETBSD_NR_compat_43_ioctl 109
#define TARGET_NETBSD_NR_compat_43_setsockopt 110
#define TARGET_NETBSD_NR_compat_43_syscall 111
#define TARGET_NETBSD_NR_compat_43_mmap 112
#define TARGET_NETBSD_NR_compat_43_munmap 113
#define TARGET_NETBSD_NR_gettimeofday 116
#define TARGET_NETBSD_NR_getrusage 117
#define TARGET_NETBSD_NR_getsockopt 118
#define TARGET_NETBSD_NR_readv 120
#define TARGET_NETBSD_NR_writev 121
#define TARGET_NETBSD_NR_settimeofday 122
#define TARGET_NETBSD_NR_fchown 123
#define TARGET_NETBSD_NR_fchmod 124
#define TARGET_NETBSD_NR_compat_43_memcpy 125
#define TARGET_NETBSD_NR_setreuid 126
#define TARGET_NETBSD_NR_setregid 127
#define TARGET_NETBSD_NR_rename 128
#define TARGET_NETBSD_NR_compat_43_truncate 129
#define TARGET_NETBSD_NR_compat_43_ftruncate 130
#define TARGET_NETBSD_NR_flock 131
#define TARGET_NETBSD_NR_mkdir 132
#define TARGET_NETBSD_NR_mkdir 133
#define TARGET_NETBSD_NR_shutdown 134
#define TARGET_NETBSD_NR_setsockopt 135
#define TARGET_NETBSD_NR_mkfifo 136
#define TARGET_NETBSD_NR_socketpair 137
#define TARGET_NETBSD_NR_mkdir 138
#define TARGET_NETBSD_NR_utimes 139
#define TARGET_NETBSD_NR_adjtime 140
#define TARGET_NETBSD_NR_compat_43_getpeername 141
#define TARGET_NETBSD_NR_compat_43_gethostid 142
#define TARGET_NETBSD_NR_compat_43_sethostid 143
#define TARGET_NETBSD_NR_compat_43_getrlimit 144
#define TARGET_NETBSD_NR_compat_43_setrlimit 145
#define TARGET_NETBSD_NR_compat_43_okillpg 146
#define TARGET_NETBSD_NR_setsid 147
#define TARGET_NETBSD_NR_quotactl 148
#define TARGET_NETBSD_NR_compat_43_oquota 149
#define TARGET_NETBSD_NR_compat_43_ogetsockname 150
#define TARGET_NETBSD_NR_nfssvc 155
#define TARGET_NETBSD_NR_compat_43_ogetdirentries 156
#define TARGET_NETBSD_NR_compat_20_statfs 157
#define TARGET_NETBSD_NR_compat_20_fstatfs 158
#define TARGET_NETBSD_NR_compat_30_getlh 161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname 162
#define TARGET_NETBSD_NR_compat_09_osetdomainname 163
#define TARGET_NETBSD_NR_compat_09_ouname 164
#define TARGET_NETBSD_NR_sysarch 165
#define TARGET_NETBSD_NR_compat_10_osemsys 169
#define TARGET_NETBSD_NR_compat_10_omsgsys 170
#define TARGET_NETBSD_NR_compat_10_oshmsys 171
#define TARGET_NETBSD_NR_pread 173
#define TARGET_NETBSD_NR_pwrite 174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime 175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid 181
#define TARGET_NETBSD_NR_setegid 182
#define TARGET_NETBSD_NR_seteuid 183
#define TARGET_NETBSD_NR_lfs_bmapv 184
#define TARGET_NETBSD_NR_lfs_markv 185
#define TARGET_NETBSD_NR_lfs_segeclean 186
#define TARGET_NETBSD_NR_lfs_segwait 187
#define TARGET_NETBSD_NR_compat_12_stat12 188
#define TARGET_NETBSD_NR_compat_12_fstat12 189
#define TARGET_NETBSD_NR_compat_12_lstat12 190
#define TARGET_NETBSD_NR_pathconf 191
#define TARGET_NETBSD_NR_fpathconf 192
#define TARGET_NETBSD_NR_getrlimit 194
#define TARGET_NETBSD_NR_setrlimit 195
#define TARGET_NETBSD_NR_compat_12_getdirentries 196
#define TARGET_NETBSD_NR_mmap 197
#define TARGET_NETBSD_NR___syscall 198
#define TARGET_NETBSD_NR__lseek 199
#define TARGET_NETBSD_NR_truncate 200
#define TARGET_NETBSD_NR___ftruncate 201
#define TARGET_NETBSD_NR___sysctl 202
#define TARGET_NETBSD_NR_mlock 203
#define TARGET_NETBSD_NR_munlock 204
#define TARGET_NETBSD_NR_undelete 205
#define TARGET_NETBSD_NR_futimes 206
#define TARGET_NETBSD_NR_getpgid 207
#define TARGET_NETBSD_NR_reboot 208
#define TARGET_NETBSD_NR_poll 209
#define TARGET_NETBSD_NR_compat_14___semctl 220
#define TARGET_NETBSD_NR_semget 221
#define TARGET_NETBSD_NR_semop 222
#define TARGET_NETBSD_NR_semconfig 223
#define TARGET_NETBSD_NR_compat_14_msgctl 224
#define TARGET_NETBSD_NR_msgget 225
#define TARGET_NETBSD_NR_msgsnd 226
#define TARGET_NETBSD_NR_msgrcv 227
#define TARGET_NETBSD_NR_shmat 228
#define TARGET_NETBSD_NR_compat_14_shmctl 229
#define TARGET_NETBSD_NR_shmdt 230
#define TARGET_NETBSD_NR_shmget 231
#define TARGET_NETBSD_NR_clock_gettime 232
#define TARGET_NETBSD_NR_clock_settime 233
#define TARGET_NETBSD_NR_clock_getres 234
#define TARGET_NETBSD_NR_timer_create 235
#define TARGET_NETBSD_NR_timer_delete 236
#define TARGET_NETBSD_NR_timer_settime 237
#define TARGET_NETBSD_NR_timer_gettime 238
#define TARGET_NETBSD_NR_timer_getoverrun 239
#define TARGET_NETBSD_NR_nanosleep 240
#define TARGET_NETBSD_NR_fdatasync 241
#define TARGET_NETBSD_NR_mlockall 242
#define TARGET_NETBSD_NR_munlockall 243
#define TARGET_NETBSD_NR___sigtimedwait 244
#define TARGET_NETBSD_NR_modctl 246
#define TARGET_NETBSD_NR_ksem_init 247
#define TARGET_NETBSD_NR_ksem_open 248
#define TARGET_NETBSD_NR_ksem_unlink 249
#define TARGET_NETBSD_NR_ksem_close 250
#define TARGET_NETBSD_NR_ksem_post 251
#define TARGET_NETBSD_NR_ksem_wait 252
#define TARGET_NETBSD_NR_ksem_trywait 253
#define TARGET_NETBSD_NR_ksem_getvalue 254
#define TARGET_NETBSD_NR_ksem_destroy 255
#define TARGET_NETBSD_NR_mq_open 257
#define TARGET_NETBSD_NR_mq_close 258
#define TARGET_NETBSD_NR_mq_unlink 259
#define TARGET_NETBSD_NR_mq_getattr 260
#define TARGET_NETBSD_NR_mq_setattr 261
#define TARGET_NETBSD_NR_mq_notify 262
#define TARGET_NETBSD_NR_mq_send 263
#define TARGET_NETBSD_NR_mq_receive 264
#define TARGET_NETBSD_NR_mq_timedsend 265
#define TARGET_NETBSD_NR_mq_timedreceive 266
#define TARGET_NETBSD_NR___posix_rename 270
#define TARGET_NETBSD_NR_swapctl 271
#define TARGET_NETBSD_NR_compat_30_getdents 272
#define TARGET_NETBSD_NR_minherit 273
#define TARGET_NETBSD_NR_lchmod 274
#define TARGET_NETBSD_NR_lchown 275
#define TARGET_NETBSD_NR_lutimes 276
#define TARGET_NETBSD_NR___msync13 277
#define TARGET_NETBSD_NR_compat_30___stat13 278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___sigaltstack14 281
#define TARGET_NETBSD_NR___vfork14 282
#define TARGET_NETBSD_NR___posix_chown 283
#define TARGET_NETBSD_NR___posix_fchown 284
#define TARGET_NETBSD_NR___posix_lchown 285
#define TARGET_NETBSD_NR_getsid 286
#define TARGET_NETBSD_NR___clone 287
#define TARGET_NETBSD_NR_fktrace 288
#define TARGET_NETBSD_NR_preadv 289
#define TARGET_NETBSD_NR_compat_16___sigaction14 290
#define TARGET_NETBSD_NR___sigpending14 291
#define TARGET_NETBSD_NR___sigprocmask14 292
#define TARGET_NETBSD_NR___sigsuspend14 293
#define TARGET_NETBSD_NR_compat_16___sigreturn14 294
#define TARGET_NETBSD_NR___getcwd 295
#define TARGET_NETBSD_NR_fchroot 296
#define TARGET_NETBSD_NR_compat_30_fhopen 297
#define TARGET_NETBSD_NR_compat_30_fhstat 298
#define TARGET_NETBSD_NR_compat_20_fhstatfs 299
#define TARGET_NETBSD_NR_____semctl13 300
#define TARGET_NETBSD_NR___msgctl13 301
#define TARGET_NETBSD_NR___shmctl13 302
#define TARGET_NETBSD_NR_lchflags 303
#define TARGET_NETBSD_NR_issetugid 304
#define TARGET_NETBSD_NR_utrace 305
#define TARGET_NETBSD_NR_getcontext 306
#define TARGET_NETBSD_NR_setcontext 307
#define TARGET_NETBSD_NR__lwp_create 308
#define TARGET_NETBSD_NR__lwp_exit 309
#define TARGET_NETBSD_NR__lwp_self 310
#define TARGET_NETBSD_NR__lwp_wait 311
#define TARGET_NETBSD_NR__lwp_sustain 312
#define TARGET_NETBSD_NR__lwp_suspend 313
#define TARGET_NETBSD_NR__lwp_continue 314
#define TARGET_NETBSD_NR__lwp_wakeup 315
#define TARGET_NETBSD_NR__lwp_getprivate 316
#define TARGET_NETBSD_NR__lwp_setprivate 317
#define TARGET_NETBSD_NR__lwp_kill 318
#define TARGET_NETBSD_NR__lwp_detach 319
#define TARGET_NETBSD_NR__lwp_park 320
#define TARGET_NETBSD_NR__lwp_unpark 321
#define TARGET_NETBSD_NR__lwp_unpark_all 322
#define TARGET_NETBSD_NR__lwp_setname 323
#define TARGET_NETBSD_NR__lwp_getname 324
#define TARGET_NETBSD_NR__lwp_ctl 325
#define TARGET_NETBSD_NR_sa_register 330
#define TARGET_NETBSD_NR_sa_stacks 331
#define TARGET_NETBSD_NR_sa_enable 332
#define TARGET_NETBSD_NR_sa_setconcurrency 333
#define TARGET_NETBSD_NR_sa_yield 334
#define TARGET_NETBSD_NR_sa_preempt 335
#define TARGET_NETBSD_NR_sa_unblockyield 336
#define TARGET_NETBSD_NR___sigaction_sigtramp 340
#define TARGET_NETBSD_NR_pmc_get_info 341
#define TARGET_NETBSD_NR_pmc_control 342
#define TARGET_NETBSD_NR_rasctl 343
#define TARGET_NETBSD_NR_kqueue 344
#define TARGET_NETBSD_NR_kevent 345
#define TARGET_NETBSD_NR___sched_setparam 346
#define TARGET_NETBSD_NR___sched_getparam 347
#define TARGET_NETBSD_NR___sched_setaffinity 348
#define TARGET_NETBSD_NR___sched_getaffinity 349
#define TARGET_NETBSD_NR___sched_yield 350
#define TARGET_NETBSD_NR_fsync_range 354
#define TARGET_NETBSD_NR_uuidgen 355
#define TARGET_NETBSD_NR_getvfsstat 356
#define TARGET_NETBSD_NR_statvfs1 357
#define TARGET_NETBSD_NR_fstatvfs1 358
#define TARGET_NETBSD_NR_compat_30_fhstatvfs 359
#define TARGET_NETBSD_NR_extattrctl 360
#define TARGET_NETBSD_NR_extattr_set_file 361
#define TARGET_NETBSD_NR_extattr_get_file 362
#define TARGET_NETBSD_NR_extattr_delete_file 363
#define TARGET_NETBSD_NR_extattr_set_fd 364
#define TARGET_NETBSD_NR_extattr_get_fd 365
#define TARGET_NETBSD_NR_extattr_delete_fd 366
#define TARGET_NETBSD_NR_extattr_set_link 367
#define TARGET_NETBSD_NR_extattr_get_link 368
#define TARGET_NETBSD_NR_extattr_delete_link 369
#define TARGET_NETBSD_NR_extattr_list_fd 370
#define TARGET_NETBSD_NR_extattr_list_file 371
#define TARGET_NETBSD_NR_extattr_list_link 372
#define TARGET_NETBSD_NR_pselect 373
#define TARGET_NETBSD_NR_pollts 374
#define TARGET_NETBSD_NR_lsetxattr 375
#define TARGET_NETBSD_NR_fsetxattr 376
#define TARGET_NETBSD_NR_nssetxattr 377
/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $ */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $ */

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*
* @(#)errno.h 8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM            1       /* Operation not permitted */
#define TARGET_ENOENT           2       /* No such file or directory */
#define TARGET_ESRCH            3       /* No such process */
#define TARGET_EINTR            4       /* Interrupted system call */
#define TARGET_EIO              5       /* Input/output error */
#define TARGET_ENXIO            6       /* Device not configured */
#define TARGET_E2BIG            7       /* Argument list too long */
#define TARGET_ENOEXEC          8       /* Exec format error */
#define TARGET_EBADF            9       /* Bad file descriptor */
#define TARGET_ECHILD           10      /* No child processes */
#define TARGET_EDEADLK          11      /* Resource deadlock avoided */
#define TARGET_ENOMEM           12      /* Cannot allocate memory */
#define TARGET_EACCES           13      /* Permission denied */
#define TARGET_EFAULT           14      /* Bad address */
#define TARGET_ENOTBLK          15      /* Block device required */
#define TARGET_EBUSY            16      /* Device busy */
#define TARGET_EEXIST           17      /* File exists */
#define TARGET_EXDEV            18      /* Cross-device link */
#define TARGET_ENODEV           19      /* Operation not supported by device */
#define TARGET_ENOTDIR          20      /* Not a directory */
#define TARGET_EISDIR           21      /* Is a directory */
#define TARGET_EINVAL           22              /* Invalid argument */
#define TARGET_ENFILE           23              /* Too many open files in system */
#define TARGET_EMFILE           24              /* Too many open files */
#define TARGET_ENOTTY           25              /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY          26              /* Text file busy */
#define TARGET_EFBIG            27              /* File too large */
#define TARGET_ENOSPC           28              /* No space left on device */
#define TARGET_ESPIPE           29              /* Illegal seek */
#define TARGET_EROFS            30              /* Read-only file system */
#define TARGET_EMLINK           31              /* Too many links */
#define TARGET_EPIPE            32              /* Broken pipe */

/* math software */
#define TARGET_EDOM             33              /* Numerical argument out of domain */
#define TARGET_ERANGE           34              /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN           35              /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK      EAGAIN          /* Operation would block */
#define TARGET_EINPROGRESS      36              /* Operation now in progress */
#define TARGET_EALREADY 37              /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET_ENOTSOCK 38              /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ     39              /* Destination address required */
#define TARGET_EMMSGSIZE 40              /* Message too long */
#define TARGET_EPROTOTYPE       41              /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT      42              /* Protocol not available */
#define TARGET_EPROTONOSUPPORT  43              /* Protocol not supported */
#define TARGET_ENOPROTOOPT      42              /* Protocol not available */
#define TARGET_EPROTONOSUPPORT  43              /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT  44              /* Socket type not supported */
#define TARGET_EOPNOTSUPP       45              /* Operation not supported */
#define TARGET_EPFNOSUPPORT     46              /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT     47              /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE       48              /* Address already in use */
#define TARGET_EADDRNOTAVAIL    49              /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50              /* Network is down */
#define TARGET_ENETUNREACH 51              /* Network is unreachable */
#define TARGET_ENETRESET      52              /* Network dropped connection on reset */
#define TARGET_ECONNABORTED    53              /* Software caused connection abort */
#define TARGET_ECONNRESET      54              /* Connection reset by peer */
#define TARGET_ENOBUFS         55              /* No buffer space available */
#define TARGET_EISCONN         56              /* Socket is already connected */
#define TARGET_ENOTCONN 57              /* Socket is not connected */
#define TARGET_ESHUTDOWN       58              /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS    59              /* Too many references: can't splice */
#define TARGET_ETIMEDOUT       60              /* Operation timed out */
#define TARGET_ECONNREFUSED 61    /* Connection refused */

#define TARGET_ELOOP 62            /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63     /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64        /* Host is down */
#define TARGET_EHOSTUNREACH 65     /* No route to host */
#define TARGET_ENOTEMPTY 66        /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67         /* Too many processes */
#define TARGET_EUSERS 68           /* Too many users */
#define TARGET_EDQUOT 69           /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70           /* Stale NFS file handle */
#define TARGET_EREMOTE 71          /* Too many levels of remote in path */
#define TARGET_EBADRPC 72          /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73     /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74     /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75    /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76     /* Bad procedure for program */

#define TARGET_ENOLCK 77           /* No locks available */
#define TARGET_ENOSYS 78           /* Function not implemented */

#define TARGET_EFTYPE 79           /* Inappropriate file type or format */
#define TARGET_EAUTH 80            /* Authentication error */
#define TARGET_ENEEDAUTH 81        /* Need authenticator */
#define TARGET_EIPSEC 82           /* IPsec processing failure */
#define TARGET_ENOATTR 83          /* Attribute not found */
#define TARGET_EILSEQ 84           /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85        /* No medium found */
#define TARGET_ESMEDIUMTYPE 86     /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87        /* Conversion overflow */
#define TARGET_ECANCELED 88        /* Operation canceled */
#define TARGET_EIDRM 89            /* Identifier removed */
#define TARGET_ENOMSG 90           /* No message of desired type */
#define TARGET_ELAST 90            /* Must be equal largest errno */

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/* $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp */

/*
 * System call numbers.
 *
 * created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork 2
#define TARGET_OPENBSD_NR_read 3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open 5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4 7
#define TARGET_OPENBSD_NR_link 9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount 22
#define TARGET_OPENBSD_NR_setuid 23
#define TARGET_OPENBSD_NR_getuid 24
#define TARGET_OPENBSD_NR_geteuid 25
#define TARGET_OPENBSD_NR_ptrace 26
#define TARGET_OPENBSD_NR_recvmsg 27
#define TARGET_OPENBSD_NR_sendmsg 28
#define TARGET_OPENBSD_NR_recvfrom 29
#define TARGET_OPENBSD_NR_accept 30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access 33
#define TARGET_OPENBSD_NR_chflags 34
#define TARGET_OPENBSD_NR_fchflags 35
#define TARGET_OPENBSD_NR_sync 36
#define TARGET_OPENBSD_NR_kill 37
#define TARGET_OPENBSD_NR_getppid 39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe 42
#define TARGET_OPENBSD_NR_getegid 43
#define TARGET_OPENBSD_NR_profil 44
#define TARGET_OPENBSD_NR_ktrace 45
#define TARGET_OPENBSD_NR_sigaction 46
#define TARGET_OPENBSD_NR_getgid 47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin 49
#define TARGET_OPENBSD_NR_acct 50
#define TARGET_OPENBSD_NR_sigsuspend 52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl 54
#define TARGET_OPENBSD_NR_reboot 55
#define TARGET_OPENBSD_NR_revoke 56
#define TARGET_OPENBSD_NR_symlink 57
#define TARGET_OPENBSD_NR_readlink 58
#define TARGET_OPENBSD_NR_execve 59
#define TARGET_OPENBSD_NR_umask 60
#define TARGET_OPENBSD_NR_chroot 61
#define TARGET_OPENBSD_NR_vfork 66
#define TARGET_OPENBSD_NR_sbrk 69
#define TARGET_OPENBSD_NR_sstk 70
#define TARGET_OPENBSD_NR_munmap 73
#define TARGET_OPENBSD_NR_mprotect 74
#define TARGET_OPENBSD_NR_madvise 75
#define TARGET_OPENBSD_NR_mincore 78
#define TARGET_OPENBSD_NR_getgroups 79
#define TARGET_OPENBSD_NR_setgroups 80
#define TARGET_OPENBSD_NR_getpgrp 81
#define TARGET_OPENBSD_NR_setpgrp 82
#define TARGET_OPENBSD_NR_setpgid 83
#define TARGET_OPENBSD_NR_setitimer 86
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setsockopt 105
#define TARGET_OPENBSD_NR_listen 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR_lfs_segeclean 186
#define TARGET_OPENBSD_NR_lfs_segwait 187
#define TARGET_OPENBSD_NR_pathconf 191
#define TARGET_OPENBSD_NR_fpathconf 192
#define TARGET_OPENBSD_NR_swapctl 193
#define TARGET_OPENBSD_NR_getrlimit 194
#define TARGET_OPENBSD_NR_setrlimit 195
#define TARGET_OPENBSD_NR_getdirentries 196
#define TARGET_OPENBSD_NR_mmap 197
#define TARGET_OPENBSD_NRฃément 198
#define TARGET_OPENBSD_NR_lseek 199
#define TARGET_OPENBSD_NR_truncate 200
#define TARGET_OPENBSD_NR_ftruncate 201
#define TARGET_OPENBSD_NR_FOREACH 202
#define TARGET_OPENBSD_NR_mlock 203
#define TARGET_OPENBSD_NR_munlock 204
#define TARGET_OPENBSD_NR_futimes 206
#define TARGET_OPENBSD_NR_getpgid 207
#define TARGET_OPENBSD_NR_xfspioctl 208
#define TARGET_OPENBSD_NR_semget 221
#define TARGET_OPENBSD_NR_msgget 225
#define TARGET_OPENBSD_NR_msgsnd 226
#define TARGET_OPENBSD_NR_msgrcv 227
#define TARGET_OPENBSD_NR_shmat 228
#define TARGET_OPENBSD_NR_shmdt 230
#define TARGET_OPENBSD_NR_clock_gettime 232
#define TARGET_OPENBSD_NR_clock_settime 233
#define TARGET_OPENBSD_NR_clock_getres 234
#define TARGET_OPENBSD_NR_nanosleep 240
#define TARGET_OPENBSD_NR_minherit 250
#define TARGET_OPENBSD_NR_rfork 251
#define TARGET_OPENBSD_NR_poll 252
#define TARGET_OPENBSD_NR_ISSETUGID 253
#define TARGET_OPENBSD_NR_lchown 254
#define TARGET_OPENBSD_NR_getsid 255
#define TARGET_OPENBSD_NR_msync 256
#define TARGET_OPENBSD_NR_pipe 263
#define TARGET_OPENBSD_NR_fhopen 264
#define TARGET_OPENBSD_NR_preadv 267
#define TARGET_OPENBSD_NR_pwritev 268
#define TARGET_OPENBSD_NR_kqueue 269
#define TARGET_OPENBSD_NR_kevent 270
#define TARGET_OPENBSD_NR_mlockall 271
#define TARGET_OPENBSD_NR_munlockall 272
#define TARGET_OPENBSD_NR_fchmod 273
#define TARGET_OPENBSD_NR_getpeereid 273
#define TARGET_OPENBSD_NR_getresuid 281
#define TARGET_OPENBSD_NR_setresuid 282
#define TARGET_OPENBSD_NR_getresgid 283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR__semctl 289
#define TARGET_OPENBSD_NR_shmget 290
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR__stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR__msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR__thrsleep 300
#define TARGET_OPENBSD_NR__thrwakeup 301
#define TARGET_OPENBSD_NR_threxit    302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd    304
#define TARGET_OPENBSD_NR_adjfreq     305
#define TARGET_OPENBSD_NR_getfsstat   306
#define TARGET_OPENBSD_NR_statfs      307
#define TARGET_OPENBSD_NR_fstatfs     308
#define TARGET_OPENBSD_NR_fhstatfs    309

/* syscall flags from machine/trap.h */

/* OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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* *
*/

#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */

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History
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1.894 grep 3.1 2build1

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1.895 liberror-perl 0.17025 1

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1.897 unzip 6.0-21ubuntu1
1.897.1 Available under license:

This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

FIRST NOTE:
This file contains some details about the copyright history of contributions to the UnZip project.
Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.
Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.
There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ... etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available.
as a separate distribution (the restricted copyright of this code is
cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code
(macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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* changes."

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The following copyright applies to the Mac OS "macbin3" decoding code
(extra field compatibility with ZipIt):

* MacBinaryIII.h
*
* Copyright 1997 Christopher Evans (cevans@poppybank.com)
*
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* -------------------------------
* This source is copyrighted by Christopher Evans (cevans@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthal  leonardr@netcom.com)
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The following copyright applies to the full-featured unreduce.c (now distributed separately):

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* Do not use any of this in a commercial product.

Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

------------------------------------------------------------------------
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1.898 grep 2.27 2

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```
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```

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---

DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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Appendix A Copying and indices

In the appendix, we print the indices and references.
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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.914 unzip 6.0-23+deb10u1

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program.
For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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* MoreFiles
  *
* A collection of File Manager and related routines
  *
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* with significant code contributions by Nitin Ganatra
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* MacBinaryIII.h
  *
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  *
* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* ---------------------------------------------------------
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994; (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBUT in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.915 shadow 4.5 1ubuntu1

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***************************************************************************
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1.923 rubygems-integration 1.11

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1.924 tomcat-dbcp 9.0.13

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1.925 e2fsprogs 1.44.1 1ubunto1.2

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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
**NOTE! The following LGPL license applies to the tdb library. This does NOT imply that all of Samba is released.**

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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

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

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

image:$BSDLIB_LIB

$(BSDLIB_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSDLIB_LIB) $(LDFLAGS_ShLIB) $(OBJ))
$(MV) pic/$BSDLIB_LIB
$(RM) -f ../$(BSDLIB_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSDLIB_LIB) $(BSDLIB_LIB))

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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

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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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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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That's all there is to it!

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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Gadi Oxman, August 1995

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was put together by Yann Dirson <dirson@debian.org>,
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1.936 postgresql 10.10-0ubuntu0.18.04.1
1.936.1 Available under license :
messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on
<code class="filename">stderr</code>, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.

The function <code class="function">PQsetNoticeReceiver</code> sets or examines the current notice receiver for a connection object. Similarly, <code class="function">PQsetNoticeProcessor</code> sets or examines the current notice processor.

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

When a notice or warning message is received from the server, or generated internally by <span class="application">libpq</span>, the notice receiver function is called. It is passed the message in the form of a <code class="symbol">PGRES_NONFATAL_ERROR</code> <code class="structname">PGresult</code>. (This allows the receiver to extract individual fields using <code class="function">PQresultErrorField</code>, or obtain a complete preformatted message using <code class="function">PQresultErrorMessage</code> or <code class="function">PQresultVerboseErrorMessage</code>.) The same
void pointer passed to \texttt{PQsetNoticeReceiver()} is also passed. (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using \texttt{PQresultErrorMessage()}) and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to \texttt{PQsetNoticeProcessor()}. (This pointer can be used to access application-specific state if needed.)

The default notice processor is simply:

\begin{verbatim}
static void
defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
\end{verbatim}

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the \texttt{PGconn} object or \texttt{PGresult} objects made from it exist. At creation of a \texttt{PGresult}, the \texttt{PGconn}’s current notice handling pointers are copied into the \texttt{PGresult} for possible use by functions like \texttt{PQgetvalue}. 

This regular expression package was originally developed by Henry Spencer.

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1.941 mawk 1.3.3-17+b3
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1.943 shim 15+1533136590.3beb971 0ubuntu1

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1.945 iputils 20161105 1ubuntu3
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Protocol Buffers for Go with Gadgets

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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

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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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/* 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 DBX 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)))

#define HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) 
 ( fputs (".lcomm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%u\n", (int)(ALIGNMENT))

#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\n", (int)(ALIGNMENT))
#endif

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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), "%talign %d\u", (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 "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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

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" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
" Standard preamble:
" ========================================================================
de Sp " Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
de Vb " Begin verbatim text
.ft CW
.nf
.ne \\
.. 
.de Ve \" End verbatim text
.ft R

"Set up some character translations and predefined strings. \"(-- will give an unbreakable dash, \"(PI will give pi, \"(L" will give a left double quote, and \"(R" will give a right double quote. \"(C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and \" therefore won’t be available. \"(C’ and \"(C’ expand to ‘’ in nroff, \" nothing in troff, for use with C<>.
.tr \v(*W-
.ds C+ C\v^\h\h\v\h\v-2p\v\h\v+2p\v0\v\h\v-1p'
.ie n \{
    .ds -- \v(*W-
    .ds PI pi
    if (\(H=4u)\&(1m=24u) .ds -- \v(*W\h\v-12u\"(*W\h\v-12u\" diablo 10 pitch
    if (\(H=4u)\&(1m=20u) .ds -- \v(*W\h\v-12u\"(*W\h\v-8u\" diablo 12 pitch
    .ds L" "
    .ds R" "
    .ds C" "
    .ds C" "
    \b\} 
    .el \{
    .ds -- \v(\{em\} 
    .ds PI \v(*p
    .ds L" 
    .ds R" 
    .ds C 
    .ds C 
    \b\}  
    \v"Escape single quotes in literal strings from groff’s Unicode transform.
.ie \n(\g .ds Aq \v(aq
.el .ds Aq \v'
.\v" If the F register is >0, we’ll generate index entries on stderr for \v" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you’ll have to process the \v" output yourself in some meaningful fashion.
.\v" Avoid warning from groff about undefined register 'F'.
.de IX
.. if !\nF .nr F 0
.. if \nF>0 \j \n % \j
.. de IX
.. tm Index:\%$1\%t\%n\%$t\$2
.. if !\nF==2 \j
.. nr % 0
Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff

if n {
  ds #H 0
  ds #V .8m
  ds #F .3m
  ds [#] \&
}
if t {
  ds #H ((1u-((\n(.fu%2u))*.13m
  ds #V .6m
  ds #F 0
  ds [#] \&
}

simple accents for nroff and troff

if n {
  ds `' \&
  ds ` \&
  ds ^ \&
  ds , \&
  ds ~ ~
  ds /
}
if t {
  ds ` \h'-(\n(.wu*8/10-#(#H))/\h"]|\n:u'
  ds ` \h'-(\n(.wu*8/10-#(#H))/\h"]|\n:u'
  ds ^ \h'-(\n(.wu*10/11-#(#H))/\h"]|\n:u'
  ds , \h'-(\n(.wu*8/10)/\h"]|\n:u'
  ds ~ \h'-(\n(.wu*8/10)/\h"]|\n:u'
  ds / \h'-(\n(.wu*8/10-#(#H))/\h"]|\n:u'
}

troff and (daisy-wheel) nroff accents

ds : \h'-(\n(.wu*8/10-#(#H))/\h'-(\n(.wu*8/10-#(#F))/\h'-(\n(.wu*8/10-#(#F))/\h"]|\n:u'

Open Source Used In Cisco Ultra Cloud Platform 2019.0913273
" corrections for vroff
.if v .ds ~ \k:\h'-(\n(.wu*9/10-*(#H)\s-2u-\d\s+2\h|\n:.u'
.if v .ds ^ \k:\h'-(\n(.wu*10/11-*(#H)\v'.4m'\v'.4m'\h'|\n:.u'
    " for low resolution devices (crt and lpr)
.if \n(H>23 .if \n(V>19 
|\n    ds : e
    ds 8 ss
    ds o a
    ds d- d\h'-1\(ga
    ds D- D\h'-1\(hy
    ds th \o'bp'
    ds Th \o'LP'
    ds ae ae
    ds Ae AE
|}
.rm #[ #] #H #V #F C
"
)" "=======================================================================
"
IX Title "GPL 7"
.TH GPL 7 "2018-10-26" "gcc-6.5.0" "GNU"
"
For nroff, turn off justification. Always turn off hyphenation; it makes
" way too many mistakes in technical documents.
.if n .ad 1
.nh
.SH "NAME"
gpl - GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
\&        Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
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.IX Subsection "Preamble"
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{

    AudioSecurityManager$Permission(::java::lang::String *, jint);
public:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * values();
    static ::gnu::javax::sound::AudioSecurityManager$Permission * valueOf(::java::lang::String *);
    static ::gnu::javax::sound::AudioSecurityManager$Permission * PLAY;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * RECORD;
    static ::gnu::javax::sound::AudioSecurityManager$Permission * ALL;
private:
    static JArray< ::gnu::javax::sound::AudioSecurityManager$Permission * > * ENUM$VALUES;
public:
    static ::java::lang::Class class$;
};

@endif // __gnu_java_sound_AudioSecurityManager$Permission__
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@item
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@end enumerate

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```
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```
16/gnu/java/sound/AudioSecurityManager$Permissionjava/lang/Enum<ILgnu/java/sound/AudioSecurityManager$Permission;RECORDALLENUM$VALUES2[Lgnu/java/sound/AudioSecurityManager$Permission;<clinit>()V
<init>(Ljava/lang/String;I)V
LineNumberTableLocalVariableTable
thisvalues4)[Lgnu/java/sound/AudioSecurityManager$Permission;
$&%java/lang/System'(arraycopy*(Ljava/lang/Object;ILjava/lang/Object;II)V
valueOfE(Ljava/lang/String;)Lgnu/java/sound/AudioSecurityManager$Permission;
).-5(Ljava/lang/Class:Ljava/lang/String;)Ljava/lang/Enum;
SourceFileAudioSecurityManager.java
SignatureCLjava/lang/Enum<Lgnu/java/sound/AudioSecurityManager$Permission;>;InnerClasses4$gnu/javax/sound/AudioSecurityManager
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```

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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
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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
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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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Version 3.1, 31 March 2009

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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 * *
 * @version 0.0
 * *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_acl_Permission__
define __java_security_acl_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
namespace java
{
namespace security
{
namespace acl
{

class Permission; 

}
}
}

class java::security::acl::Permission : public ::java::lang::Object
{

public:

virtual jboolean equals(::java::lang::Object *) = 0;
virtual ::java::lang::String * toString() = 0;

static ::java::lang::Class class$;
} __attribute__((java_interface));

#endif // __java_security_acl_Permission__
/* Permission.java -- The superclass for all permission objects

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obligated to do so.  If you do not wish to do so, delete this
exception statement from your version. */

package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
* This class is the abstract superclass of all classes that implement
* the concept of a permission. A permission consists of a permission name
* and optionally a list of actions that relate to the permission. The
* actual meaning of the name of the permission is defined only in the
* context of a subclass. It may name a resource to which access permissions
* are granted (for example, the name of a file) or it might represent
* something else entirely. Similarly, the action list only has meaning
* within the context of a subclass. Some permission names may have no
* actions associated with them. That is, you either have the permission
* or you don't.
*
* <p>The most important method in this class is <code>implies</code>. This
* checks whether if one has this permission, then the specified
* permission is also implied. As a conceptual example, consider the
* permissions "Read All Files" and "Read File foo". The permission
* "Read All Files" implies that the caller has permission to read the
* file foo.
*
* <p><code>Permission</code>'s must be immutable - do not change their
* state after creation.
*
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/
public abstract class Permission implements Guard, Serializable
{
/**
* Compatible with JDK 1.1+
*/
private static final long serialVersionUID = -5636570222231596674L;

/**
* This is the name assigned to this permission object.
*
* @serial the name of the permission
*/
private String name;

/**
* Create an instance with the specified name.
*
* @param name the permission name
*/
public Permission(String name)
this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
    {
        sm.checkPermission(this);
    }
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();
/**
* Get the name of this <code>Permission</code>.
*
* @return the name
*/
public final String getName()
{
    return name;
}

/**
* This method returns the list of actions for this <code>Permission</code> as a <code>String</code>. The string should be in canonical order, for example, both <code>new FilePermission(f, "write,read")</code> and <code>new FilePermission(f, "read,write")</code> have the action list "read,write".
*
* @return the action list for this <code>Permission</code>
*/
public abstract String getActions();

/**
* This method returns an empty <code>PermissionCollection</code> object that can store permissions of this type, or <code>null</code> if no such collection is defined. Subclasses must override this to provide an appropriate collection when one is needed to accurately calculate <code>implies</code>.
*
* @return a new <code>PermissionCollection</code>
*/
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
* This method returns a <code>String</code> representation of this <code>Permission</code> object. This is in the format: 
* <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions + ')'</code>. 
*
* @return this object as a <code>String</code>
*/
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');

    return string.toString();
}
string = string.append(getClass().getName());
string = string.append(' ');
string = string.append(getName());

if (!getActions().equals('""'))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
}
} // class Permission

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   University of Illinois at Urbana-Champaign

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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

/* gnu.classpath.tools.taglets.CopyrightTaglet
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this exception to your version of the library, but you are not
obligated to do so. If you do not wish to do so, delete this
exception statement from your version. */

package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }
}
public boolean isInlineTag() {
    return false;
}

class CopyrightTaglet {
    private static final String NAME = "Copyright\n\n    public CopyrightTaglet() {
    }
    
    public String toString() {
        return "Copyright\n    }
    
    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }
    
    public String toString(Tag tag) {
        return toString(new Tag[] { tag });
    }
    
    public String toString(Tag[] tags) {
        if (tags.length == 0) {
            return null;
        }
        if (tags.length < 0) {
            return null;
        }
        boolean haveValidTag = false;
        for (int i = tags.length; !haveValidTag && i++) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright \u00a9 " + tags[i].text() + "</i></dt>");
                }
            }
            result.append("</dl>);
            return result.toString();
        }
        return null;
    }
}

#!/usr/bin/python
#
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# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0
    def report(self, filename, string):
if filename:
    string = filename + ' : ' + string
sys.stderr.write (string + '\n')
self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set ([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltob globally m4',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',]
# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
}

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        re.compile ('\t')
        return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True
    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs
def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?\[-0-9,\s]\s+and\s+]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w\s*-'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile(
            # 1: 'Copyright (C)', etc.
            '([Cc]\s*)\bCopyright
            '[Cc]\s*\([Cc]\s*)
            '[Cc]\s*%s'
            '[Cc]\s*\&copy;
            '\s*\[@\w\-\]+copyright\s\)+'
            'copyright = u\n            '\s*\[@\w\-\]+copyright\w-+\)'

            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\s*[?\+ ranges + ',,?]
            '\s*\[@\w\-\]+\s\)+

            # 3: 'by ', if used
            '(by\s+)?'

            # 4: the copyright holder. Don't allow multiple consecutive
            # spaces, so that right-margin gloss doesn't get caught

            \s*'
# (e.g. gnat_ugn.texi).
'( + name + '(?is? + name + *))?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)
def year_range (self, years):
    year_list = [self.parse_year (year)
         for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)
intro = match.group (1)
if intro.startswith ('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end (2):].strip()
    if after_years != ':
        self.errors.report (pathname,
            'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break
        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break
        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match (line, match.start())
    assert match

    holder = match.group (4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author (dir, filename):
        assert holder not in self.holders
    elif not holder:
        self.errors.report (pathname, 'missing copyright holder')
        return (False, orig_line, next_line)
    elif holder not in self.holders:
        self.errors.report (pathname,
            'unrecognised copyright holder: ' + holder)
        return (False, orig_line, next_line)
else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed

            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
                line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
            if self.use_quilt:
                subprocess.call (['quilt', 'add', pathname])
            os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]

            # Handle the files in this directory.
            for filename in filenames:
                if filter.skip_file (dir, filename):
                    sys.stdout.write ('Skipping %s
' % filename[1:] )
% os.path.join (dir, filename))
else:
    self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', """quilt add" files before changing them", self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice', self.o_this_year)

        def add_option (self, name, help, handler):
            self.option_help.append ((name, help))
            self.option_handlers[name] = handler

        def add_dir (self, dir, filter = GenericFilter()):
            self.dirs.append ((dir, filter))

        def o_help (self, option = None):
            sys.stdout.write ('Usage: %s [options] dir1 dir2...

            Options:
' % sys.argv[0])
            format = '%-15s %s
'
            for (what, help) in self.option_help:
                sys.stdout.write (format % (what, help))
            sys.stdout.write ('Directories:
')
            format = '%-25s'
            i = 0
            for (dir, filter) in self.dirs:
                i += 1
                if i % 3 == 0 or i == len (self.dirs):
                    sys.stdout.write (dir + 'n')
                else:
                    sys.stdout.write (format % dir)
            sys.exit (0)

        def o_quilt (self, option):
            self.copyright.set_use_quilt (True)
def o_this_year(self, option):
    self.copyright.include_year(time.localtime().tm_year)

def main(self):
    for arg in sys.argv[1:]
        if arg[1:] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join(chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith(canon_dir):
                        count += 1
                        self.copyright.process_tree(dir, filter)
                if count == 0:
                    self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
                sys.exit(0 if self.errors.ok() else 1)

#----------------------------------------

class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)
class GCCFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])
def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (['
            # Maintained by the translation project.
            .po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (['
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (['
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Handled separately.
            'testsuite',
        })

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ({
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        })

        self.skip_dirs |= set ({
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        })

        self.own_files |= set ({
            # Contains markup around the copyright owner.
            'spine.xml',
        })

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
self.add_package_author('Free Software Foundation.', canon_fsf)
self.add_package_author('Free Software Foundation Inc.', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('NVIDIA Corporation')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine(CmdLine):
def __init__(self):
    CmdLine.__init__(self, GCCCopyright)

    self.add_dir('.', TopLevelFilter())
    # boehm-gc is imported from upstream.
    self.add_dir('config', ConfigFilter())
    # contrib isn't really part of GCC.
    self.add_dir('fixincludes')
    self.add_dir('gcc', GCCFilter())
    self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
    self.add_dir('gnattools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libc++', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libg++', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libc++',
    'libdecnumber',
    'libg++',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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Version 3, 29 June 2007

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*m4/ax_func_which_gethostbyname_r.m4

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<?dbhtml filename="appendix_gpl.html"?>

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author</replaceable>

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under certain conditions; type <literal>show c</literal> for details.

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<literal>show c</literal> should show the appropriate parts of
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6b.

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@end enumerate

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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
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// DO NOT EDIT THIS FILE - it is machine generated -*- c++ -*-

#ifndef __java_security_Permission__
#define __java_security_Permission__

#pragma interface

#include <java/lang/Object.h>
extern "Java"
{
 namespace java
 {
  namespace security

---

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{  
class Permission;  
class PermissionCollection;  
}  
}  
}  

class java::security::Permission : public ::java::lang::Object  
{  
public:  
  Permission(::java::lang::String *);  
  virtual void checkGuard(::java::lang::Object *);  
  virtual jboolean implies(::java::security::Permission *) = 0;  
  virtual jboolean equals(::java::lang::Object *) = 0;  
  virtual jint hashCode() = 0;  
  virtual ::java::lang::String * getName();  
  virtual ::java::lang::String * getActions() = 0;  
  virtual ::java::security::PermissionCollection * newPermissionCollection();  
  virtual ::java::lang::String * toString();  
private:  
  static const jlong serialVersionUID = -563657022231596674LL;  
  ::java::lang::String * __attribute__((aligned(__alignof__( ::java::lang::Object)))) name;  
public:  
  static ::java::lang::Class class$;  
};  

#endif // __java_security_Permission__  

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

HISTORY -

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

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

Some other contributors:

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

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

Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

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

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1.982 node-fs.realpath 1.0.0-1

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1.984 python 2.7.15 4ubuntu4~18.04.2

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Mersenne Twister
===============

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code::

   A C-program for MT19937, with initialization improved 2002/1/26.
   Coded by Takuji Nishimura and Makoto Matsumoto.

   Before using, initialize the state by using init_genrand(seed)
   or init_by_array(init_key, key_length).

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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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---------------------------

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1.989 hk2-api 2.4.0

1.990 tcp-dump 4.9.2 3
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1.992 node-minimatch 3.0.4-3

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1.994 python-jsonpatch 1.19+really1.16-1fakesync1

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1.995 lmdb 0.9.17-3

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1.996 init-system-helpers 1.56+nmu1

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5c9f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

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1.1017 amqp-client 4.4.1

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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.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
     close(fd);
 }

```c
+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)
+                        {
+                            display_file(pamh, "/etc/legal");
+                            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);
+                        }
+                        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)
+                        {
+                            display_file(pamh, "/etc/legal");
+                            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);
+                        }
+                        goto 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;
+
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
 /* Display the updated motd */
     display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+ return retval;
}

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1.1021 jersey-client 2.22

1.1022 automat 0.6.0 1
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1.1023 jetty-util 9.2.1.v20140609

1.1024 sosreport 3.6-1ubuntu0.18.04.3
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src/devices/xditview/DESC.in
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. The -mdoc macro set, using the BSD license.

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---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

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#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS \
  uv__io_t event_watcher; \

#define UV_IO_PRIVATE_PLATFORM_FIELDS \
  int rcount; \
  int wcount;

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */

Files: *

Files: getopt.c

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Files: getopt.c

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1.1031 metrics-graphite 4.0.2

1.1032 fdisk 2.27.1 6ubuntu3.6

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/*
Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2f05067c18f2ec9 bsd.img

---layout-------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device   Boot Start  End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a8a045db233418dd73f8e bsd.img

---layout-------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device   Boot Start  End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
<removed>2 4096 20479 16384 8M a5 FreeBSD

--------------
Create default BSD
2e1cee529cb59e9341afe0f443f196a1 bsd.img

---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
c  4096 20479   16384    8M unused       0     0   0
d  0 16064   16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
-------------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

-------------------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0  unused           5  4.1BSD   9  4.4LFS   d  boot
1  swap             6 Eighth Edition a  unknown  e  ADOS
2  Version 6       7  4.2BSD   b  HPFS     f  HFS
3  Version 7       8  MS-DOS   c  ISO-9660 10  AdvFS
4  System V

Command (m for help):
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#!/usr/bin/python
#
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```
Copyright XXXX-YYYY Free Software Foundation, Inc.
```

It doesn't change code that is known to be maintained elsewhere or
that carries a non-FSF copyright.

The script also doesn't change testsuite files, except those in
libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
while most tests in other directories are just things that failed at some
point in the past.

Pass --this-year to the script if you want it to add the current year
to all applicable notices. Pass --quilt if you are using quilt and
want files to be added to the quilt before being changed.

By default the script will update all directories for which the
output has been vetted. You can instead pass the names of individual
directories, including those that haven't been approved. So:

```
update-copyright.py --this-year
```

is the command that would be used at the beginning of a year to update
all copyright notices (and possibly at other times to check whether
new files have been added with old years). On the other hand:

```
update-copyright.py --this-year libitm
```

would run the script on just libitm/.

Note that things like --version output strings must be updated before
this script is run. There's already a separate procedure for that.

```python
class Errors:
    def __init__ (self):
        self.num_errors = 0

def report (self, filename, string):
    if filename:
        string = filename + ':' + string
```
sys.stderr.write (string + "\n")
self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set ([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltersions.m4',
            'ltsgua.m4',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',

            # Skip FSF mission statement, etc.
        ])

        # Copy (shallow) own files and directories
        self.own_files |= set ([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltersions.m4',
            'ltsgua.m4',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
            'ylwrap',

            # Skip FSF mission statement, etc.
        ])}
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile('\t')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
return True
# Only touch current ChangeLogs.
if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
    return True
return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include ‘.’ for typos.
        ranges = '[0-9][?:-0-9,\s]\s+[0-9]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w[-.]*'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile :
            # 1: 'Copyright (C)', etc.
            '((C)opyright'
            '[Cc]opyright\s+([Cc]')
            '[Cc]opyright\s+%s'
            'Copyright\s+©'
            '.set\s+copyright\{[^{}]*\}'
            'copyright = u"'
            '@set\s+copyright\{w-\}"
           )

            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\s*([?:-0-9,\s]+\s+\s*)'
            '@value\{[^{}]*\}s+'

            # 3: 'by ', if used
            '\(by\s+\)'

            # 4: the copyright holder. Don't allow multiple consecutive
            # spaces, so that right-margin gloss doesn't get caught
            # (e.g. gnat_ugn.texi).
            '\(\s+\)\s+'
            '@name \('+')'
A regexp for notices that might have slipped by. Just matching
'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|^|[*]+|;+|%+|//+|@c|dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)

    def year_range (self, years):
year_list = [self.parse_year (year)
    for year in self.year_re.findall (years)]
assert len (year_list) > 0
return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2):].strip()
    if after_years != ':
        self.errors.report(pathname,
            'trailing characters in @set: '
            + after_years)
        return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match

        holder = match.group(4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders

        elif not holder:
            self.errors.report(pathname, 'missing copyright holder')
            return (False, orig_line, next_line)

        elif holder not in self.holders:
            self.errors.report(pathname,
                'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)

        else:
            # See whether the copyright is associated with the package
# author.
canon_form = self.holders[holder]
if not canon_form:
    return (False, orig_line, next_line)

# Make sure the author is given in a consistent way.
line = (line[:match.start (4)]
    + canon_form
    + line[match.end (4):])

# Remove any 'by'
line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)
else:
    intro = intro[:-3] + '(C'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
    return
lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
mode = None
with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
    for line in file:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter, 
                                            file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
        elif self.other_copyright_re.search (line):
            self.errors.report (pathname, 
                                'unrecognised copyright: %s' 
                                % line.strip())
            lines.append (line)
            line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
                os.fchmod (file.fileno(), mode)
            if self.use_quilt:
                subprocess.call (['quilt', 'add', pathname])
            os.rename (tmp_pathname, pathname)

    def process_tree (self, tree, filter):
        for (dir, subdirs, filenames) in os.walk (tree):
            # Don't recurse through directories that should be skipped.
            for i in xrange (len (subdirs) - 1, -1, -1):
                if filter.skip_dir (dir, subdirs[i]):
                    del subdirs[i]

            # Handle the files in this directory.
            for filename in filenames:
                if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s
% os.path.join (dir, filename))
else:
    self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', ""quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter ()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2 ...

Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('Directories:
')
        format = '%-25s
'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '
')
            else:
                sys.stdout.write (format % dir)
        sys.exit (0)

    def o_quilt (self, option):
        self.copyright.set_use_quilt (True)
def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith (canon_dir):
                    count += 1
                    self.copyright.process_tree (dir, filter)
            if count == 0:
                self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#.............................................................................

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)
class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ({
            # Not part of GCC
            'math-68881.h',
        })

        self.skip_dirs |= set ({
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        })

        self.skip_extensions |= set ({
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        })

        self.fossilised_files |= set ({
            # Old news won't be updated.
            'ONEWS',
        })

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ({
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        })
def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn’t updated.
    if filename == ‘README’ and os.path.basename(dir) == ‘g++.niklas’:
        return True
    # Similarly params/README.
    if filename == ‘README’ and os.path.basename(dir) == ‘params’:
        return True
    if filename == ‘pdt_5.f03’ and os.path.basename(dir) == ‘gfortran.dg’:
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            ‘.po’,

            # Automatically-generated.
            ‘.pot’,
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            ‘soft-fp’,
        ])

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            ‘intro.xml’,
        ])

        self.skip_dirs |= set([
            # Contains automatically-generated sources.
            ‘html’,

            # The testsuite data files shouldn’t be changed.
self.own_files |= set(
    # Contains markup around the copyright owner.
    ['spine.xml',]
)

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)
        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Intel Corporation')
        self.add_external_author('Information Technology Industry Council.')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author('National Research Council of Canada.')
        self.add_external_author('NVIDIA Corporation')
        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
        self.add_external_author('Regents of the University of California.')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcc1')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        # libgo is imported from upstream.
        self.add_dir ('libgomp')
        self.add_dir ('libhsail-rt')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
        # liboffloadmic is imported from upstream.
        self.add_dir ('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('libvtv')
        self.add_dir ('lto-plugin')
self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libobjc',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
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/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
    adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* 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 DBX 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)))

#if defined 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 "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
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DRuntime: Runtime Library for the D Programming Language

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

@item
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@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

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@end enumerate

@end enumerate

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

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possible use to the public, the best way to achieve this is to make it
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to attach them to the start of each source file to most effectively
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the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}
@end smallexample
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@end smallexample

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

@end smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
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first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.
@end c man end
\" Automatically generated by Pod::Man 4.11 (Pod::Simple 3.35)
\"
\" Standard preamble:
\"=======================================================================
de Sp " Vertical space (when we can't use .PP)
Set up some character translations and predefined strings. *(-- will give an unbreakable dash, *(PI will give pi, *(L" will give a left double quote, and *(R" will give a right double quote. *(C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and therefore won’t be available. *(C’ and *(C” expand to ‘” in nroff, nothing in troff, for use with C<>.

```
\tr \(*W- \\
.ds C+ C\v'-1.1\v'-1p\v'-2+\v'-1p'+5\v'.1\v'-1p'
.ie n \{
 . ds -- \(*W- \\
 . ds PI pi \\
 . if \((n\:.H=4u)&(1m=24u) .ds -- \(*W\v'-12u\v'(*W\v'-12u\v'-\v') diablo 10 pitch \\
 . if \((n\:.H=4u)&(1m=20u) .ds -- \(*W\v'-12u\v'(*W\v'-8u\v'-\v') diablo 12 pitch \\
 . ds L" " \\
 . ds R" " \\
 . ds C" " \\
 . ds C’ " \\
.br 
.ie \{
 . ds -- \(em\| \\
 . ds PI \(*p \\
 . ds L" " \\
 . ds R" " \\
 . ds C' \\
 . ds C’ \\
.br 
```

\" Escape single quotes in literal strings from groff’s Unicode transform.

```
.ie \n(.g .ds Aq \(aq \\
.el .ds Aq ' 
```

\" If the F register is >0, we’ll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you’ll have to process the output yourself in some meaningful fashion.
Avoid warning from groff about undefined register 'F'.
.de IX
.. nr rF 0
.. .if \n(g .if rF .nr rF 1
.. .if \n(rF:\n(g,==0)) \{
    if \nF \{
    .de IX
    .tm Index:\$1\n%\t"\$2"
..    if \nF==2 \{
        nr % 0
        nr F 2
    .\}
    .\}
    .r rF
    ."
"
.. Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.. Fear. Run. Save yourself. No user-serviceable parts.
.. .f fudge factors for nroff and troff
.. .if n \{
    .ds #H 0
    .ds #V .8m
    .ds #F .3m
    .ds #[ \f1
    .ds #] \fP
.. .if t \{
    .ds #H ((1u-(\n(.fu%2u))*.13m)
    .ds #V .6m
    .ds #F 0
    .ds #[ \&
    .ds #] \&
.. ." simple accents for nroff and troff
.. .if n \{
    .ds `' \&
    .ds ` ` \&
    .ds ^ ` \&
    .ds `, ` \&
    .ds ~ ~
    .ds /
.. .if t \{
    .ds `\k:\h'-\n(\n.wu*8/10-(\#H)\h\n):u"\n    .ds `\k:\h'-\n(\n.wu*8/10-(\#H)\h\n):u'
    .ds ^ `\k:\h'-\n(\n.wu*10/11-(\#H)\h\n):u'
    .ds ^ `\k:\h'-\n(\n.wu*8/10-(\#H)\h\n):u'
IX Title "GPL 7"
.TH GPL 7 "2019-02-22" "gcc-8.3.0" "GNU"
" For nroff, turn off justification. Always turn off hyphenation; it makes way too many mistakes in technical documents.
.if n .ad 1
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\$s-IGNUs0 General Public License" 
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007" 
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Theodore Ts'o
23-June-2007

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Index: tdbsa/tdb.c

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+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
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+ trivial database library - standalone version

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1.1056 keepalived 1.3.9-1ubuntu0.18.04.2

1.1056.1 Available under license:

Jan Holmberg, <jan@artech.net>:
  o Memory framework
  o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
  o MISC checker redesign
  o Scheduler framework extension to support child process handling.
  o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
  o Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
  o Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
  o Fixed shadowed declaration reported by -Wshadow.
  o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com>:
  o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at lwt.eu>:
  o Extended VRRP framework to support floating priority.

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1.1062 gdk-pixbuf 2.10.6

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b) Use a suitable shared library mechanism for linking with the
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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
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1.1066 apt 1.2.31

1.1067 pax-utils 1.2.2 r1

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uv__io_t event_watcher;  

#define UV_IO_PRIVATE_PLATFORM_FIELDS
int rcount;  
int wcount;  

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
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1.1070 libyaml 0.1.7

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1.1071 pciutils 3.5.2 1ubuntu1.1

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set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1

1.1090 jackson-databind 1.9.13 cassandra.ph

1.1091 gettext 2.23 0ubuntu11

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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

That's all there is to it!

\" Automatically generated by Pod::Man 4.11 (Pod::Simple 3.35)
\" Standard preamble:
\" ========================================================================
\de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..\de Vb \" Begin verbatim text
\ft CW
\nf
\ne "$1
..
\de Ve \" End verbatim text
\ft R
\fi
..
\" Set up some character translations and predefined strings. \"(-- will
\" give an unbreakable dash, \"PI will give pi, \"L" will give a left
\" double quote, and \"R" will give a right double quote. \"C+ will
\" give a nicer C++. Capital omega is used to do unbreakable dashes and
\" therefore won't be available. \"C" and \"C" expand to ``` in nroff,
\" nothing in troff, for use with C<<.
\tr \"(*W-
\ds C+ C\v'-.1v\h'-.1p'\s-2+\h'-.1p'\s0\v'.1v\h'-.1p'
\ie n \{
  . ds -- \"(*W-
  . ds PI pi
  . if \n(H=4u)&(1m=24u) .ds -- \"(*W\v'-.12u')(\h'-.12u')\sdiablo 10 pitch
  . if \n(H=4u)&(1m=20u) .ds -- \"(*W\v'-.12u')(\h'-.8u')\sdiablo 12 pitch
  . ds L'" "
  . ds R" "
  . ds C" "
  . ds C" "
'br\}
\ef}\
  . ds -- \$cm\}
  . ds PI \"p

Open Source Used In Cisco Ultra Cloud Platform 2019.0914495
Escape single quotes in literal strings from groff's Unicode transform.

If the F register is >0, we'll generate index entries on stderr for
titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
entries marked with X<> in POD. Of course, you'll have to process the
output yourself in some meaningful fashion.

Avoid warning from groff about undefined register 'F'.

Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

Fear. Run. Save yourself. No user-serviceable parts.

fudge factors for nroff and troff

if n {
    .if n 0
    .ds #H 0
    .ds #V .8m
    .ds #F .3m
    .ds #[ \f1
    .ds #] \fP
}

if t {
    .if t 0
    .ds #H ((1u-\n%.fu%2u)*.13m)
    .ds #V .6m
    .ds #F 0
    .ds #[ \&```
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libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
while most tests in other directories are just things that failed at some
point in the past.

Pass --this-year to the script if you want it to add the current year
to all applicable notices. Pass --quilt if you are using quilt and
want files to be added to the quilt before being changed.

By default the script will update all directories for which the
output has been vetted. You can instead pass the names of individual
directories, including those that haven't been approved. So:

update-copyright.py --this-year

is the command that would be used at the beginning of a year to update
all copyright notices (and possibly at other times to check whether
new files have been added with old years). On the other hand:

update-copyright.py --this-year libitm

would run the script on just libitm/.

Note that things like --version output strings must be updated before
this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0
def report(self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write(string + '
')
    self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
        ''])
def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'^')
    return None

def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):

return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors
        # Characters in a range of years. Include ',' for typos.
        ranges = '[0-9](?:[-0-9,.\s]\s+and\s+)*[0-9]'
        # Non-whitespace characters in a copyright holder's name.
        name = '\w-\n'
        # Matches one year.
        self.year_re = re.compile ('[0-9]+')
        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)
        # Matches a full copyright notice:
        self.copyright_re = re.compile (  
            # 1: 'Copyright (C)', etc.
            '([Cc]opyright'  
            ' |[Cc]opyrights+\{[Cc]\}'  
            ' |[Cc]opyrights+%s'  
            ' |[Cc]opyright%s+&copy;'  
            ' |[Cc]opyrights+@copyright{}'  
            '|copyright = u\''  
            '@set%s+copyright\[w-\]+')
        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '(\s*\(?::\) + ranges + \.',?
        '@value\{[^\{}]*\})\s*')
        # 3: 'by ', if used
        '(by\s+)\''
# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
#(' + name + '(?:\s?' + name + '+')*')?

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ', '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (', ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (', ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
next_line = None
pathname = os.path.join(dir, filename)

intro = match.group(1)
if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2):].strip()
    if after_years != '':
        self.errors.report(pathname,
                          'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete(match):
        try:
            next_line = file.next()
        except StopIteration:
            break
    # If the next line doesn’t look like a proper continuation,
    # assume that what we’ve got is complete.
    continuation = self.strip_continuation(next_line)
    if not self.continuation_re.match(continuation):
        break
    # Merge the lines for matching purposes.
    orig_line += next_line
    line = line.rstrip() + '' + continuation
    next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match(line, match.start())
    assert match

    holder = match.group(4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author(dir, filename):
        assert holder not in self.holders
    elif not holder:
        self.errors.report(pathname, 'missing copyright holder')
        return (False, orig_line, next_line)
    elif holder not in self.holders:
        self.errors.report(pathname,
                          'unrecognised copyright holder: ' + holder)
return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ') +
            canon_form + self.separator + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
    else:
except OSError:
    pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
mode = None
with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
    for line in file:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter,
                                            file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed
        # Check for copyright lines that might have slipped by.
        elif self.other_copyright_re.search (line):
            self.errors.report (pathname,
                                'unrecognised copyright: %s'
                                % line.strip())
            lines.append (line)
            line = next_line

        # If something changed, write the new file out.
        if changed and self.errors.ok():
            tmp_pathname = pathname + '.tmp'
            with open (tmp_pathname, 'w') as file:
                for line in lines:
                    file.write (line)
                os.fchmod (file.fileno(), mode)
            if self.use_quilt:
                subprocess.call (["quilt", 'add', pathname])
            os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s\n' % os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
            self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
            self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter ()):  
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...\n
            Options:
        ' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))

        sys.stdout.write ('Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '\n')
            else:
                sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
# Skip files imported from gettext.
if file.readline().find('gettext-') >= 0:
    return True

return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            ...
        ])

        self.fossilised_files |= set([
            # Old news won't be updated.
            'ONEWS',
        ])
def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    # Similarly params/README.
    if filename == 'README' and os.path.basename(dir) == 'params':
        return True
    if filename == 'pdt_5.f03' and os.path.basename(dir) == 'gfortran.dg':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_dirs |= set(['
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_files |= set(['
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set(['
            # g++-3.4/debian/priority'
        ])
# Contains automatically-generated sources.
'html',

# The testsuite data files shouldn't be changed.
'data',

# Contains imported images
'images',
)

self.own_files |= set (
    # Contains markup around the copyright owner.
    'spine.xml',
)
)

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
def __init__ (self, errors):
    Copyright.__init__ (self, errors)

    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsf)
    self.add_package_author ('Free Software Foundation.', canon_fsf)
    self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
    self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
    self.add_package_author ('The Free Software Foundation', canon_fsf)
    self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
    self.add_package_author ('Software Foundation, Inc.', canon_fsf)

    self.add_external_author ('ARM')
    self.add_external_author ('AdaCore')
    self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
    self.add_external_author ('Cavium Networks.')
    self.add_external_author ('Faraday Technology Corp.')
    self.add_external_author ('Florida State University')
    self.add_external_author ('Greg Colvin and Beman Dawes.')
    self.add_external_author ('Hewlett-Packard Company')
    self.add_external_author ('Intel Corporation')
    self.add_external_author ('Information Technology Industry Council.')
    self.add_external_author ('James Theiler, Brian Gough')
    self.add_external_author ('Makoto Matsumoto and Takuji Nishimura')
    self.add_external_author ('National Research Council of Canada')
    self.add_external_author ('NVIDIA Corporation')
class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn’t really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('gotools')
        self.add_dir('include')
        # intl is imported from upstream.
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libc1')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        # libgo is imported from upstream.
        self.add_dir('libgomp')
        self.add_dir('libhsail-rt')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libobjc')
        # liboffloadmic is imported from upstream.
        self.add_dir('libquadmath')
        # libsanitizer is imported from upstream.

        self.add_external_author('Peter Dimov and Multi Media Ltd.')
        self.add_external_author('Peter Dimov')
        self.add_external_author('Pipeline Associates, Inc.')
        self.add_external_author('Regents of the University of California.')
        self.add_external_author('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author('Silicon Graphics')
        self.add_external_author('Stephen L. Moshier')
        self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author('The Go Authors. All rights reserved.')
        self.add_external_author('The Regents of the University of California.')
        self.add_external_author('Unicode, Inc.')
        self.add_external_author('University of Toronto.')

        self.add_external_author('The Go Authors. All rights reserved.')
        self.add_external_author('The Go Authors.')
        self.add_external_author('The Regents of the University of California.')
        self.add_external_author('Unicode, Inc.')
        self.add_external_author('University of Toronto.')
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = ['gcc',
                     'include',
                     'libada',
                     'libatomic',
                     'libbacktrace',
                     'libcc1',
                     'libcpp',
                     'libdecnumber',
                     'libgcc',
                     'libgfortran',
                     'libgmp',
                     'libhsail-rt',
                     'libiberty',
                     'libitm',
                     'libobjc',
                     'libssp',
                     'libstdc++-v3',
                     'libvtv',
                     'lto-plugin',
                     ]

GCCCmdLine().main()
==============================================================================
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-------             ---------
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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 DBX output. -- RMS */
/* 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"u", (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
", (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
", (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
", (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), 	.align %d
", (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 "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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<bridgehead xml:id="Protecting" renderas="sect1">
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obligated to ensure that it is available for as long as needed to
satisfy these requirements.
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Convey the object code using peer-to-peer transmission, provided you
inform other peers where the object code and Corresponding Source of the
work are being offered to the general public at no charge under
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@enumerate 0
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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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the version number 2.1.]

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

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file name:  UBiDiProps.java
* encoding:  US-ASCII
* tab size:  8 (not used)
* indentation:4
*
* created on: 2005jan16
* created by: Markus W. Scherer
*
* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi_props.h/c.

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<code>Replaceable</code> is an interface representing a
string of characters that supports the replacement of a range of
itself with a new string of characters. It is used by APIs that
change a piece of text while retaining metadata. Metadata is data
other than the Unicode characters returned by char32At(). One
example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<p><code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<p><code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.  

<p>For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

<ol>
  <li>Set the metadata of the new text to the metadata of the first character replaced</li>
  <li>If no characters are replaced, use the metadata of the previous character</li>
  <li>If there is no previous character (i.e. start == 0), use the following character</li>
  <li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
  <li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ol>

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.  

<p><em>Note:</em> This class does not support attributes and is not intended for general use. Most clients will need to implement [ @link Replaceable ] in their text representation class.
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 */
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    public final String getName() { return null; }
    public void checkGuard(Object obj) throws SecurityException {
    }
    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }
    public abstract String getActions();
    public abstract boolean implies(Permission permission);
}

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Files: Changes Changes.old Makefile README *Announce *Ism
proj.man-pages.desc proj.man-pages.pages
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#!/usr/bin/python3
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import re
import sys
import textwrap
from pathlib import Path

# The standard short names in Debian are defined here:
# https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

license_information = [
    {
        'shortname': 'BSD-3-clause',
        'filename': 'BSD-3-clause-UCB',
        'upstream_names': ['BSD_3_CLAUSE_UCB'],
    },
    {
        'shortname': 'BSD-4-clause',
        'filename': 'BSD-4-clause-UCB',
        'upstream_names': ['BSD_4_CLAUSE_UCB', 'BSD_ONELINE_CDROM'],
    },
    {
        'shortname': 'Expat',
        'filename': 'Expat',
        'upstream_names': ['PERMISSIVE_MISC', 'MIT'],
    },
]

# This shortname is not defined by the standard.
'shortname': 'freely-redistributable',
licenses_with_manpages = {}
symlinks = {}

def get_license_shortname(name):
    # Gets the Debian shortname for the name supplied by upstream.
Includes a check that upstream's names are only assigned to one shortname.

```python
shortname = ""
already_found = False
for info in license_information:
    if name in info['upstream_names']:
        if not already_found:
            shortname = info['shortname']
            already_found = True
        else:
            sys.exit("Fatal error: Upstream license name defined multiple times: " + name)
    return shortname
```

def add_manpage_to_shortname(manpage, copyright_holders, licenses):
    filename = str(manpage)
    # Strip the leading "./"
    filename = filename[3:len(filename)]
    # Common case: only one license for the manpage, so
    # the shortname is just e.g. "GPL-2+"
    shortname = " and ".join(sorted(licenses))
    if shortname not in licenses_with_manpages:
        licenses_with_manpages[shortname] = {'files': [filename], 'copyright': copyright_holders}
    else:
        licenses_with_manpages[shortname]['files'].append(filename)
    # Do not add same lines twice
    existing_copyright_holders = licenses_with_manpages[shortname]['copyright']
    joined_copyright_holders = list(set(existing_copyright_holders + copyright_holders))
    licenses_with_manpages[shortname]['copyright'] = joined_copyright_holders

def get_copyright_stanza(shortname, file_info):
    stanza = ""
    all_files = file_info['files']
    for file in file_info['files']:
        if file in symlinks:
            all_files = all_files + symlinks[file]
    # Join the files into a whitespace separated list,
    # at most 76 characters long
    files = " ".join(sorted(all_files))
    # The wrap is 69 + 7 (length of "Files: ") = 76
    files = textwrap.wrap(files, width=69, break_long_words=False, break_on_hyphens=False)
    files = "\n ".join(files)
    # Now format the copyright holders
    copyright = "\n ".join(sorted(file_info['copyright']))
    # An empty field is an error, so ensure a value
    if len(copyright) == 0:
```
# Finally, create the stanza
stanza += "Files: " + files
stanza += "\nCopyright: " + copyright
stanza += "\nLicense: " + shortname + "\n"
return stanza

def get_license_text(shortname):
    """Gets the text for the Debian license shortname."""
    text = ""
    for info in license_information:
        if info['shortname'] == shortname:
            text += "License: " + shortname + "\n"
            with open("licenses" + info['filename']) as licensefile:
                for line in licensefile:
                    text += " " + line
    return text

p = Path("..")
for manpage in p.glob("man?/*"):  
    with manpage.open() as file:
        licenses = []
        copyright_holders = []
        manpage_is_symlink = False
        for line in file:
            # Do not create copyright stanzas for symlink files
            # but add them to a symlink list
            symlink = re.search(r'^\..*?\..*?\..*?\..*?$', line)
            if symlink:
                manpage_is_symlink = True
            # Ensure a string for the filename
            linkname = str(manpage)
            # Strip the leading "./"
            linkname = str(linkname[3:len(linkname)])
            filename = symlink.group(1)
            if filename in symlinks:
                symlinks[filename].append(linkname)
            else:
                symlinks[filename] = [linkname]
            break
            # Only parse the header, so stop after seeing ".TH"
            if re.search(r''\..*?\..*?\..*?$', line):
                break
            # Extract all copyright holders
            copyright = re.search(r''\..*?$Copyright (.*)', line)
            if copyright:
                copyright_holders.append(copyright.group(1))
            # Match the beginning of the license
license_start = re.search(r"\
\" %%%LICENSE_START\((.*)\)\", line)
if license_start:
    license_name = license_start.group(1)
    license_short_name = get_license_shortname(license_name)
    if not license_short_name:
        sys.exit("Fatal error: Upstream license name not known: " + license_name)
    licenses.append(license_short_name)
if not manpage_is_symlink:
    add_manpage_to_shortname(manpage, copyright_holders, licenses)

    # Flatten the symlinks by detecting and removing
    # a symlink which points to another symlink.
    for link_to_test in symlinks:
        # Now cycle through all symlink entries
        for link in symlinks:
            if link_to_test in symlinks[link]:
                symlinks[link] = symlinks[link] + symlinks[link_to_test]

    # Make sorting of licenses deterministic
    stanzas = ""
    license_texts = []
    for shortname in sorted(licenses_with_manpages):
        stanzas += get_copyright_stanza(shortname, licenses_with_manpages[shortname])
        text = get_license_text(shortname)
        if text:
            license_texts.append(text)

    # Read in the first lines of copyright, without
    # the automatically generated parts. Stop after
    # the third occurrence of "License".
    manual_lines = ""
    license_line_count = 0
    with open("copyright") as copyright_file:
        for line in copyright_file:
            manual_lines += line
            if re.search(r"\/\ License: \n", line):
                license_line_count += 1
                if license_line_count == 3:
                    # Add a final newline for separation
                    manual_lines += "\n"
                    break

    # Open the file for output
    with open("copyright", "w") as copyright_file:
        copyright_file.write(manual_lines)
        copyright_file.write(stanzas)
        copyright_file.write("\n".join(license_texts))
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1.1115 mime-support 3.59ubuntu1

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1.1116 util-linux 2.31.1-r0

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1.1122 postgresql-common 190

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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 (now Zope Corporation; see http://www.zope.com/). 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 is a sponsoring member of the PSF.

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Mersenne Twister
---------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.
Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `mod:` `socket` module uses the functions, `:func:` `getaddrinfo` , and `:func:` `getnameinfo` , which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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Asynchronous socket services

-----------------------------

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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  version is still 5 times faster, though.
- Arguments more compliant with Python standard
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--------------------------

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---------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
    Samuel Neves (supercop/crypto_auth/siphash24/little)
    djb (supercop/crypto_auth/siphash24/little2)
    Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
---------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash
-------

The implementation of the hash table used by the `mod:` `tracemalloc` is based on the cfuhash project::

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

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

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1.1126 pyserial 3.4-2

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

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

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

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

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

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

e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
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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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    </module2copyright>
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* golang.org/x/mod/module - https://github.com/golang/mod

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  Name string `json:"name,omitempty"
  URL  string `json:"url,omitempty"
}
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package simulator
import (  
"github.com/vmware/govmomi/object"
"github.com/vmware/govmomi/vim25/methods"
"github.com/vmware/govmomi/vim25/mo"
"github.com/vmware/govmomi/vim25/soap"
"github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license  
var EvalLicense = types.LicenseManagerLicenseInfo{  
LicenseKey: "00000-00000-00000-00000-00000",
EditionKey: "eval",
Name: "Evaluation Mode",
Properties: []types.KeyAnyValue{  
  
  Key: "feature",
  Value: types.KeyValue{  
    Key: "serialuri:2",
    Value: "Remote virtual Serial Port Concentrator",
  },
  },
  
  Key: "feature",
  Value: types.KeyValue{  
    Key: "dvs",
    Value: "vSphere Distributed Switch",
  },
  },
}


type LicenseManager struct {
  mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
  m := &LicenseManager{  
    Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense
  }

  if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
  }

  return m
}
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels: req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)  // Append the sliced slice
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)
for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[i], license.Labels[i+1:...])
        } else {
            label.Value = req.LabelValue
        }
        return body
    }
}

license.Labels = append(license.Labels, types.KeyValue{
    Key:   req.LabelKey,
    Value: req.LabelValue,
})

return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        id := types.ManagedObjectReference{
            Type:  "HostSystem",
            Value: req.EntityId,
        }
        if Map.Get(id) == nil {
            return body
        }
    }

    return body
}
body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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### Providing Feedback

**Provide feedback at the [survey](https://www.surveymonkey.com/r/JH35X82)**

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### TL;DR

- Copy files to and from Containers in a cluster

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.
## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```
## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

---

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mgo - MongoDB driver for Go

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import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header
and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list
of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q       float32
    Params   map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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go
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin  string
    Option  string
    Severity string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version  string
}

func (n *Notice) ToString() string {
s := ""
if n.Option == "" {
    s += fmt.Sprintf("Plugin " + n.Plugin + "\n")
} else {
    s += fmt.Sprintf("Option " + n.Option + " in plugin " + n.Plugin + "\n")
}
if n.Severity == unsupported {
    s += fmt.Sprintf("is unsupported by this migration tool in " + n.Version + ".\n")
} else if n.Severity == newdefault {
    s += fmt.Sprintf("is added as a default in " + n.Version + ".\n")
} else {
    s += fmt.Sprintf("is " + n.Severity + " in " + n.Version + ".\n")
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(" It is replaced by " + n.ReplacedBy + "\n")
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s
}

const {
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored = "ignored" // if included in the corefile, it will be ignored by CoreDNS
    removed = "removed" // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
                      // the Corefile
    newdefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present
                            // in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool
}

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
}

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BSON library for Go

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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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1.1142 tre 1.1.19 r11

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1.1143 metrics-json 4.0.2

1.1144 node-normalize-package-data 2.3.5-2

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

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

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

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

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"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.

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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.

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1.1156 e2fsprogs 1.44.5 1+deb10u2

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Ty Coon, President of Vice

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.org/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
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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Gadi Oxman, August 1995
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# 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; id -bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJECTS))
    $(MV) pic/$ (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)

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)

1.1157 zope-interface 4.3.2 1build2
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1.1158 quartz 2.3.0

1.1159 simpleclient-dropwizard 0.0.21

1.1160 curl 7.58.0 2ubuntu3.6

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

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1.1162 zstd 1.3.3+dfsg 2ubuntu1.1

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

- trivial database library - private includes
-
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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

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

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

image::$(BSD_LIB)

$( BSD_LIB ) : $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))
install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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*/
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Appendix: How to Apply These Terms to Your New Programs

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<signature of Ty Coon>, 1 April 1989
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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian’s start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.1175 xz 5.2.4 1
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

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

That's all there is to it!
---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

Copyright (C) 1995-2013 Jean-loup Gailly and Mark Adler

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

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

/*
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
This package was debianized by Brendan O'Dea <bod@debian.org> on Thu, 17 Aug 2000 16:10:54 +1000.
.
Upstream Authors:
.
   Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).
.
Last checked against: Perl 5.22.1

Files: *
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by Larry Wall and others
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Comment:

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are included at the end of this file.
.

Open Source Used In Cisco Ultra Cloud Platform 2019.0916372
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cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po  
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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Comment:
#perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = '';
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

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

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<signature of Ty Coon>, 1 April 1989
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Upstream-Name: perl
Source: http://www.perl.com/CPAN/src/5.0/
Comment:
This package was debianized by Brendan O'Dea <bod@debian.org> on
Thu, 17 Aug 2000 16:10:54 +1000.

Upstream Authors:

Larry Wall et. al. (see /usr/share/doc/perl/AUTHORS).

Last checked against: Perl 5.22.1

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1.1185 perl 5.24.1-3+deb9u5
1.1185.1 Available under license :

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-build@perl.org>.'
buildRequires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
version: 3
NAME

copyright.t

DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) { 
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';

do=test;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";
    # The copyright message is the first paragraph:
    local $/ = "">
    my $copyright_msg = <$readme>
    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";
    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";
    $year;
}

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

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Source: http://www.perl.com/CPAN/src/5.0/
Comment:
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Upstream Authors:

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.1189 dropwizard-util 1.3.2

1.1190 ncurses 6.1 1ubuntu1.18.04
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-------------------------------------------------------------------------------

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This script is compatible with the BSD install script, but was written
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-- vile: txtmode file-encoding=utf-8

1.1191 sqlite 3.22.0 1ubuntu0.1
1.1191.1 Available under license :
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1.1192 libpcap 1.8.1 6ubuntu1
1.1192.1 Available under license :
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1.1193 sbsigntool 0.6-3.2ubuntu2

1.1193.1 Available under license:
sbsigntool - utilities for signing UEFI binaries for use with secure boot.

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1.1194 gnu-tls 3.6.7 4
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Gocheck - A rich testing framework for Go

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1.1223 node-hosted-git-info 2.5.0-1

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1.1224 node-tunnel-agent 0.3.1-1

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1.1225 alpine-keys 2.1 r2

1.1226 zlib 2.0.4 9ubuntu2

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1.1227 glib 2.56.4 0ubuntu0.18.04.4

1.1228 tar 1.31

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#define UV_PLATFORM_FS_EVENT_FIELDS
uv__io_t event_watcher;

#define UV_IO_PRIVATE_PLATFORM_FIELDS
int rcount;
int wcount;

#define UV_HAVE_KQUEUE 1
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1.1240 commons-digester 1.8

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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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1.1246 jackson-databind 2.9.5

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1.1247 pgdg-keyring 2018.2

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## -*-makefile-*/
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared 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) $< \n| sed 's/\(^\*\)\.o\[ :\]*/\1.o $@ : /g'\n| rm -f $@
'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed 's/\(^\*\)\.o\[ :\]*/\1.o $@ : /g'\n| rm -f $@
'
## Versioned libraries rules
%.%.$(SO).%.$(SO_TARGET_VERSION_MAJOR): %.%.$(SO).%.$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.%.$(SO): %.%.$(SO).%.$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {*F}.%.$(SO).%.$(SO_TARGET_VERSION) $@
## End FreeBSD-specific setup

1.1256 hibernate-validator 5.4.2

1.1257 stax-api 1.0.1
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1.1264 gophercloud v0.1.0
1.1264.1 Available under license:

```go
package testing

import (
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
}

func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)
```
allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
th.AssertNoErr(t, err)
actual, err := resources.ExtractResources(allPages)
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleUpdateResourceSuccessfully(t)

    updateOpts := resources.UpdateOpts{
        Description: "Staging Resource",
    }

    // Test Update Resource
    // updateOpts := resources.UpdateOpts{
    //     Description: "Staging Resource",
    // }

    // updateResource := resources.Update(client.ServiceClient(), updateOpts)
    // actual, err := updateResource.Extract()
    // th.AssertNoErr(t, err)
}

// Test Delete Resource
// res := resources.Delete(client.ServiceClient(), "9fe1d3")
// th.AssertNoErr(t, res.Err)

// Test Update Resource
// updateOpts := resources.UpdateOpts{
//     Description: "Staging Resource",
// }
// updateResource := resources.Update(client.ServiceClient(), updateOpts)
// actual, err := updateResource.Extract()
// th.AssertNoErr(t, err)

// Test Get Resource
// actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
// th.AssertNoErr(t, err)

// Test Create Resource
// createOpts := resources.CreateOpts{
//     Name: "resource two",
// }
// createResource := resources.Create(client.ServiceClient(), createOpts)
// actual, err := createResource.Extract()
// th.AssertNoErr(t, err)
}{
    actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
    }

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Contributor Tutorial

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we're very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin. go to [Step 1](step-01-introduction.md).

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:

* [https://github.com/gophercloud/gophercloud/issues/108](https://github.com/gophercloud/gophercloud/issues/108)
* [https://github.com/gophercloud/gophercloud/issues/212](https://github.com/gophercloud/gophercloud/issues/212)
* [https://github.com/gophercloud/gophercloud/issues/424](https://github.com/gophercloud/gophercloud/issues/424)
* [https://github.com/gophercloud/gophercloud/issues/588](https://github.com/gophercloud/gophercloud/issues/588)
* [https://github.com/gophercloud/gophercloud/issues/629](https://github.com/gophercloud/gophercloud/issues/629)
Feature Request
---------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is start a discussion about whether or not the feature should be included in Gophercloud. We don't want to want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
* https://github.com/gophercloud/gophercloud/issues/658

There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in [this](https://github.com/gophercloud/gophercloud/issues/749) issue.
Here, a user reported fields missing in the `Get` function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:
With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

**Step 5: Writing the Code**

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project's service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

**Types of Pull Requests**

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

#### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

#### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.
### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
* [https://github.com/gophercloud/gophercloud/pull/586](https://github.com/gophercloud/gophercloud/pull/586)
* [https://github.com/gophercloud/gophercloud/pull/587](https://github.com/gophercloud/gophercloud/pull/587)
* [https://github.com/gophercloud/gophercloud/pull/594](https://github.com/gophercloud/gophercloud/pull/594)

You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests
Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're testing with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation

All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"
$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
```
Open Source Used In Cisco Ultra Cloud Platform 2019.0917196

```shell
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.

### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.
Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

```go
package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

Step 6: Code Review

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
   c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `'[wip]` tag to the title of your Pull Request.
You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.
3. Missing unit tests or acceptance tests.

Submitting Changes
-------------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

Step 1: Read Our Guides
------------------------

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/.github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

package testing

import (
    "fmt"
    "net/http"
    "testing"

    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
// ListResult provides a single page of RESOURCE results.
const ListResult = `{
}
`;

// GetResult provides a Get result.
const GetResult = `{
}
`;

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`;

// UpdateRequest provides the input to an Update request.
const UpdateRequest = `{
}
`;

// UpdateResult provides an update result.
const UpdateResult = `{
}
`;

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{};

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{};

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{};

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource};

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, ListResult)
    })
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.Header().Set("Content-Type", "application/json")
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "POST")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        th.TestJSONRequest(t, r, CreateRequest)
        w.WriteHeader(http.StatusCreated)
        fmt.Fprintf(w, GetResult)
    })
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc("/resources/9fe1d3", func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "DELETE")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
        w.WriteHeader(http.StatusNoContent)
    })
}
// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
        thTestMethod(t, r, "PATCH")
        thTestHeader(t, r, "X-Auth-Token", client.TokenID)
        thTest JsonRequest(t, r, UpdateRequest)
        w.WriteHeader(http.StatusOK)
        fmt.Fprintf(w, UpdateResult)
    })
}

package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
    gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"`
            Previous string `json:"previous"`
        } `json:"links"`
    }
    err := r.ExtractInto(&s)
    if err != nil {
        return "", err
    }
    return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
    var s struct {
        Resources []Resource `json:"resources"`
    }
    err := (r.(ResourcePage)).ExtractInto(&s)
    return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
    var s struct {
        Resource *Resource `json:"resource"`
    }
    err := r.ExtractInto(&s)
    return s.Resource, err
}
/*
Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

*/
package RESOURCE
package RESOURCE

import (  
  "github.com/gophercloud/gophercloud"
  "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to  
// the List request  
type ListOptsBuilder interface {  
  ToResourceListQuery() (string, error)  
}

// ListOpts provides options to filter the List results.  
type ListOpts struct {  
}

// ToResourceListQuery formats a ListOpts into a query string.  
func (opts ListOpts) ToResourceListQuery() (string, error) {  
  q, err := gophercloud.BuildQueryString(opts)  
  return q.String(), err  
}

// List retrieves a list of RESOURCES.  
func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {  
  url := listURL(client)  
  if opts != nil {  
    query, err := opts.ToResourceListQuery()  
    if err != nil {  
      return pagination.Pager{Err: err}  
    }  
    url += query  
  }  

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), &r.Body, nil)
    return
}

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
    ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
    b, err := opts.ToResourceCreateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{201},
    })
    return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
    _, r.Err = client.Delete(deleteURL(client, id), nil)
    return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
    ToResourceUpdateMap() (map[string]interface{}, error)
}
// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}

// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

---

Step 4: Acceptance Testing
==========================

If we haven’t started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else to have to spend time fixing it.

If you don’t have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you’ve confirmed you are able to test your code, proceed to
Step 5 to (finally!) start working on a Pull Request.

Step 3: Code Hunting

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: 
[https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
    ID         string `json:"id"`
    Name       string `json:"name"`
    AdminStateUp bool  `json:"admin_state_up"`
    Status     string `json:"status"`
    Subnets    []string `json:"subnets"`
    TenantID   string `json:"tenant_id"`
    Shared     bool   `json:"shared"`
    \n}
```

to look like

```go
type Network struct {
    ID         string `json:"id"`
    Name       string `json:"name"`
    AdminStateUp bool  `json:"admin_state_up"`
    Status     string `json:"status"`
    Subnets    []string `json:"subnets"`
    TenantID   string `json:"tenant_id"`
    Shared     bool   `json:"shared"`
    AvailabilityZoneHints []string `json:"availability_zone_hints"`
    \n}
```

We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a
'string' and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/).
However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`'string'`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips

-------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.
* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

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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
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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.

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1.1270 ruby-net-telnet 0.1.1-2

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THE BASIC LIBRARY FUNCTIONS
-------------------------------

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Email domain: cam.ac.uk

University of Cambridge Computing Service,
PCRE JUST-IN-TIME COMPILATION SUPPORT
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Written by: Zoltan Herczeg
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.. _history-and-license:

*******************
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*******************

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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 (now Zope Corporation; see http://www.zope.com/). 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 is a sponsoring member of the PSF.

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| 1.6.1           | 1.6          | 2001       | CNRI       | no              |</p>
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Mersenne Twister

--------------

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A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Sockets
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with Python standard

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--------

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Original location:
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- djb (supercop/crypto_auth/siphash24/little2)
- Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
--------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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-------

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

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

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

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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
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1.1278 zlib 1.2.5
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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1.1279 dropwizard-validation 1.3.2

1.1280 linux-meta 4.4.0.150.158

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bzip2/libbzip2 version 1.0.6 of 6 September 2010
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### 1.1304 pyyaml 3.12-1build2

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1.1305 jetty-servlets 9.4.10.v20180503

1.1306 libpipeline 1.5.0-1

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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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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.)

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That's all there is to it!

1.1309 node-github-url-from-git 1.4.0-1

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1.1314 shadow 4.5 1.1

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http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1’s various parts is at:
http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one.html.html

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html

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1.1318 base-passwd 3.5.46
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Go support for Protocol Buffers - Google's data interchange format

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type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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

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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.

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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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========

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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   kadmin/server/ipropd_svc.c
   lib/kdb/prop.x
   lib/kdb/kdb_convert.c
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import os
import sys
import re
def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*-' and we don't want to change them.
    if line != '' and line != '-':
        text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-** mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \*]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Check filename comment if present.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\s*\*\*\*/', '', line)
        line = line.strip()
if not in_comment and '/*' in line:
    (line, sep, comment_part) = line.partition('*/')
    comment = comment_part.strip()
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('/*').lstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())

is_license = check_comment(comment, fname, comment_starts_at,
                            code_seen, nonlicense_seen)
nonlicense_seen = nonlicense_seen or not is_license
in_comment = False
elif line.strip() != '':
    code_seen = True
    ln += 1
for fname in sys.argv[1::]:
    if fname.startswith('./'):
        fname = fname[2::]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)
.. _mitK5license:

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

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cmd/krb5/kproplog/kproplog.c
```
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cmd/krb5/slave/kpropd_rpc.c
```
```plaintext
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
```plaintext
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```
```plaintext
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```plaintext
lib/krb5/kadm5/kadm_host_srv_names.c
```
```plaintext
lib/krb5/kdb/kdb_convert.c
```
```plaintext
lib/krb5/kdb/kdb_hdr.h
```
```plaintext
lib/krb5/kdb/kdb_log.c
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lib/krb5/kdb/kdb_log.h
```
```plaintext
lib/libgss/g_accept_sec_context.c
```
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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/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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1.1335 okhttp 3.12.0
1.1336 tomcat-juli 9.0.13

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------------------------------------------------------------------------

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

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

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
By default the script will update all directories for which the
output has been vetted. You can instead pass the names of individual
directories, including those that haven't been approved. So:

```
# update-copyright.py --this-year
```

is the command that would be used at the beginning of a year to update
all copyright notices (and possibly at other times to check whether
new files have been added with old years). On the other hand:

```
# update-copyright.py --this-year libitm
```

would run the script on just libitm/.

Note that things like --version output strings must be updated before
this script is run. There's already a separate procedure for that.

```python
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ' ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',]...)
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

)}

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('	')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
return True

(base, extension) = os.path.splitext(os.path.join(dir, filename))
if extension in self.skip_extensions:
    return True

if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists(base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True

return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True

    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][0-9, .\s]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w-\-\-]'
# Matches one year.
self.year_re = re.compile('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile(ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (
    # 1: 'Copyright (C)', etc.
    '(?i)Copyright'
    'Copyright\s\s*\d+'
    'Copyright\s+\&copy\n'
    'Copyright = u"'
    '@set\s+copyright\[w-]+'

    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '\s*\(\d+:? ' + ranges + ' .?''
    '@value\{[^{}]*\}\s*')

    # 3: 'by', if used
    '(by\s+)?'

    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '\(\s*\[\w-\]+\)?')

    # A regexp for notices that might have slipped by. Just matching
    # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
    # HTML header markers, so check for 'copyright' and two digits.
    self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
        re.IGNORECASE)

    self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

    self.holders = { '@copying': '@copying' }

    self.holder_prefixes = set()

    # True to 'quilt add' files before changing them.
    self.use_quilt = False

    # If set, force all notices to include this year.
    self.max_year = None

    # Goes after the year(s). Could be ',', '.
    self.separator = ''
def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)

    def year_range (self, years):
        year_list = [self.parse_year (year)
                     for year in self.year_re.findall (years)]
        assert len (year_list) > 0
        return (min (year_list), max (year_list))

    def set_use_quilt (self, use_quilt):
        self.use_quilt = use_quilt

    def include_year (self, year):
        assert not self.max_year
        self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file (dir, filename):
    max_year = max (max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != '':
            self.errors.report (pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
self.errors.report (pathname, str (e))
return (False, orig_line, next_line)

line = (line[:match.start (2)]
    + ('' if intro.startswith ('copyright = ') else ' ')
    + canon_form + self.separator
    + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                            file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                return (line != orig_line, line, next_line)
# Check for copyright lines that might have slipped by.
elif self.other_copyright_re.search(line):
    self.errors.report(pathname,
        'unrecognised copyright: %s'
        % line.strip())
    lines.append(line)
    line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open(tmp_pathname, 'w') as file:
        for line in lines:
            file.write(line)
    os.fchmod(file.fileno(), mode)
    if self.use_quilt:
        subprocess.call(['quilt', 'add', pathname])
    os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange(len(subdirs) - 1, -1, -1):
            if filter.skip_dir(dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file(dir, filename):
                sys.stdout.write('Skipping %s
' % os.path.join(dir, filename))
            else:
                self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option('--help', 'Print this help', self.o_help)
        self.add_option('--quilt', 'quilt add files before changing them',
                        self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
   self.o_this_year)

def add_option (self, name, help, handler):
   self.option_help.append ((name, help))
   self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter ()):  
   self.dirs.append ((dir, filter))

def o_help (self, option = None):
   sys.stdout.write ('Usage: %s [options] dir1 dir2...

   Options:
' % sys.argv[0])
   format = '%-15s %s

   for (what, help) in self.option_help:
      sys.stdout.write (format % (what, help))
   sys.stdout.write ('
Directories:
')
   format = '%-25s

   i = 0
   for (dir, filter) in self.dirs:
      i += 1
      if i % 3 == 0 or i == len (self.dirs):
         sys.stdout.write (dir + '\n')
      else:
         sys.stdout.write (format % dir)
   sys.exit (0)

def o_quilt (self, option):
   self.copyright.set_use_quilt (True)

def o_this_year (self, option):
   self.copyright.include_year (time.localtime().tm_year)

def main (self):
   for arg in sys.argv[1:]:
      if arg[1] != '-':
         self.chosen_dirs.append (arg)
      elif arg in self.option_handlers:
         self.option_handlers[arg] (arg)
      else:
         self.errors.report (None, 'unrecognised option: ' + arg)
   if self.errors.ok ():
      if len (self.chosen_dirs) == 0:
         self.chosen_dirs = self.default_dirs
      if len (self.chosen_dirs) == 0:
         self.o_help()
      else:
for chosen_dir in self.chosen_dirs:
    canon_dir = os.path.join (chosen_dir, '')
    count = 0
    for (dir, filter) in self.dirs:
        if (dir + os.sep).startswith (canon_dir):
            count += 1
            self.copyright.process_tree (dir, filter)
    if count == 0:
        self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set (
            # Not part of GCC
            'math-68881.h',
        )
        self.skip_dirs |= set (
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        )

-----------------------------------------------
self.skip_extensions |= set([
    # Maintained by the translation project.
    '.po',
    
    # Automatically-generated.
    '.pot',
])

self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.d',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])  

    def skip_file(self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
            return True

        # Similarly params/README.
        if filename == 'README' and os.path.basename(dir) == 'params':
            return True

        if filename == 'pdt_5.f03' and os.path.basename(dir) == 'gfortran.dg':
            return True

        return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ( [
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibPhobosFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ( [
            # Source module imported from upstream.
            'object.d',
        ])

        self.skip_dirs |= set ( [
            # Contains sources imported from upstream.
            'core',
            'etc',
            'gc',
            'gcstub',
            'rt',
            'std',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ( [
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ( [
            # Contains automatically-generated sources.
            'html',
        ])

    self.skip_extensions |= set ( [
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    ])

# The testsuite data files shouldn't be changed.
'data',

# Contains imported images
'images',
]

self.own_files |= set [
    # Contains markup around the copyright owner.
    'spine.xml',
]

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \((C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)
        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)
        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks:')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Gerard Jungman')
        self.add_external_author ('Greg Colvin and Beman Dawes:')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Intel Corporation')
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        self.add_external_author ('James Theiler, Brian Gough')
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self.add_external_author('Pipeline Associates, Inc.')
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self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The D Language Foundation, All Rights Reserved')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        self.add_dir('config', ConfigFilter())
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('gotools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcc1')
        self.add_dir('libc++', LibCppFilter())
        self.add_dir('libdecnumber')
        self.add_dir('libffi', LibGCCFilter())
        self.add_dir('libgfortran')
        self.add_dir('libgomp')
        self.add_dir('libhsail-rt')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libobjc')
        self.add_dir('libphobos', LibPhobosFilter())
        self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libc++',
    'libdeccnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libphobos',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]

GCCCmdLine().main()

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Version 3, 29 June 2007

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DRuntime: Runtime Library for the D Programming Language

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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 DBX 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)))

#if defined 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
to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)  
if ((LOG)!=0) fprintf ((FILE), 
	.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 "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1
/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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\textquote{Escape single quotes in literal strings from groff’s Unicode transform.}

\textquote{If the F register is \textgreater{}0, we’ll generate index entries on stderr for titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index entries marked with X<> in POD. Of course, you’ll have to process the output yourself in some meaningful fashion.}

\textquote{Avoid warning from groff about undefined register 'F'.}

\textquote{Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).}

\textquote{Fear. Run. Save yourself. No user-serviceable parts.}

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. " simple accents for nroff and troff
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  . ds \k:-(\n(.wu*10/11-*(#H)\h'|\n:u'
  . ds \k:-(\n(.wu*8/10)'\h'|\n:u'
  . ds \k:-(\n(.wu*8/10-1m)'\h'|\n:u'
  . ds / \k:-(\n(.wu*8/10-*(#H)\h'|\n:u'
,.}
  . " troff and (daisy-wheel) nroff accents
  .ds : \k:-(\n(.wu*8/10-*(#F)\h'|\n:u'
  .ds 8 \h'|\n:u'
  .ds o \k:-(\n(.wu+\w'(de'u-*(#H)/2u'-.3n'\h'|\n:u'
  .ds d- \h'|\n:u'
  .ds D- D\h'|\n:u'
  .ds th \h'|\n:u'
  .ds Th \h'|\n:u'
  .ds ae ae
,.}
 rm #[ #] #H #V #F C

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.TH GPL 7 "2019-05-03" "gcc-9.1.0" "GNU"
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1.1358 jetty-servlets 9.2.1.v20140609

1.1359 taglibs-standard 1.2.5

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1.1360 keyutils 1.5.9 9.2ubuntu2

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1.1361 alpine-baselayout 3.0.5-r3

1.1362 logging-interceptor 3.9.1

1.1363 google-protobuf 2.6.0

1.1364 node-osenv 0.1.4-1

1.1364.1 Available under license:

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1.1365 node-uuid 1.4.7-5

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1.1366 ntp 4.2.8p10+dfsg-5ubuntu7.1

1.1367 libpng 1.6.17

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    printf("%s",png_get_copyright(NULL));

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Glenn Randers-Pehrson
  glennrp at users.sourceforge.net
  March 26, 2015

1.1368 vim 8.0.1453-1ubuntu1.1
1.1368.1 Available under license :

" Vim syntax file
" Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001

" quit when a syntax file was already loaded
if exists("b:current_syntax")
    finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match  psfUnquotString +[^# ][^#]++ contained
syn region psfQuotString  start=+"+ skip=+"+ end=+"+ contained

syn match  psfObjTag    "\[-_+A-Z0-9a-z]+\[-_+A-Z0-9a-z]\]++" contained
syn match  psfAttAbbrev  "\[-_+A-Z0-9a-z]\]+\[-_+A-Z0-9a-z]\]+\[-_+A-Z0-9a-z]\]++" contained
syn match  psfObjTags    "\[-_+A-Z0-9a-z]\]+\[-_+A-Z0-9a-z]\]+\[-_+A-Z0-9a-z]\]++" contained

syn match  psfNumber     "\d+" contained
Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
These regions are defined in attempt to do syntax checking for some
of the attributes.

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of the attributes.

These regions are defined in attempt to do syntax checking for some
of the attributes.
Define the default highlighting.
Only when an item doesn't have highlighting yet

```
hi def link psfObject       Statement
hi def link psfAttrib       Type
hi def link psfQuotString   String
hi def link psfObjTag       Identifier
hi def link psfAttAbbrev    PreProc
hi def link psfObjTags      Identifier

hi def link psfComment      Comment
```

Long descriptions and copyrights confuse the syntax highlighting, so
force vim to backup at least 100 lines before the top visible line
looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"

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Version 2.1, February 1999

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

That's all there is to it!
*uganda.txt* For Vim version 8.1. Last change: 2018 May 17

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- If you want to support further Vim development consider becoming a
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  A few minor changes have been made since he checked it, but that should not
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==============================================================================
Kibaale Children's Centre	*KCC* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there
is enough food. But this district is suffering from AIDS more than any other
part of the world. Some say that it started there. Estimations are that 10
to 30% of the Ugandans are infected with HIV. Because parents die, there are
many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).  

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number. Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
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For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruethof 1
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1.1372 ubuntu-keyring 2018.09.18.1~18.04.0

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

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

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

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xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>
* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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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 (now Zope Corporation; see http://www.zope.com/). 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 is a sponsoring member of the PSF.

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----------------

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

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---------------------------------

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Modified by Jack Jansen, CWI, July 1995:
    - Use binascii module to do the actual line-by-line conversion
      between ascii and binary. This results in a 1000-fold speedup. The C
      version is still 5 times faster, though.
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--------------------------

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--------

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-------------

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--------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
---------------

The file `file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash

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

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

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